

the tiger

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April 20, 1979

Edwards to retire

President Robert C. Edwards will retire on July 1, 1979.

The Tiger presents an in depth report on the Edwards era.

See page 15 for stories.



Photo by Hatfield

Student fees expected to rise only slightly

By Cindy Sessions
News Writer

University fees are not scheduled to increase for the fall 1979 semester, and dormitory rates will remain unchanged from 1978 charges. Meal ticket prices and the student health fee will experience small increases, however.

An unchanged university fee is contingent upon the present version of the appropriations bill for 1979-80 passing the South Carolina House, Senate, and budget committee. The bill is expected to be passed by the end of June.

A serious funding problem resulted when the state reduced the personal services fund of state agencies by 2.5 per cent. The salaries of university personnel come out of the personal services allotment, and the category makes up about 80 per cent of the university's total budget.

The state Ways and Means Committee provided for some additional funding to Clemson University to balance the 2.5 per cent reduction in the current version of the appropriations bill. If the existing plans for the state budget pass in June, no alteration of student fees will be necessary.

"We have just been through a rigorous ordeal in Columbia to secure state funds so we won't have to raise student fees," commented Melvin Barnett, vice president for business and finance. "One of our pleas was that our fees are already among the

very highest for state institutions in South Carolina.

"If we had not been successful in securing the additional funds, we would have tried to project the expected fees to give students some idea of their fall semester expenses," he added.

The housing office reports that residence hall charges will not increase for the 1979 school year. The housing contract for fall 1979 lists dormitory rates identical to those on the 1978-79 contract, ranging from \$265 to \$310 per semester.

A five day meal ticket will rise in price from \$285 per semester to \$300 per semester this fall. The seven day board plan will increase to \$355, rising from this year's charge of \$340.

John Newton, director of auxiliary services, cites an increase in the minimum wage to \$2.90 per hour for employees and the rising cost of food as the main reasons for increasing the cost of the meal tickets.

According to Newton, this rate of increase is far lower than increases in the past. "The price increases amount to 5.3 per cent for five day tickets and 4.4 per cent for the seven day tickets. Considering that the food component of the Consumer Price Index claims an overall 12 per cent rise in the cost of food from last year to this year, this is not a large increase at all."

Newton attributes the relatively small percentage increase in meal ticket prices

to the success of the Validine system. "It has definitely done what we wanted it to do, and that is to make sure both board and cash customers who paid for a meal get what they pay for. We couldn't say that before; there was so much freeloading going on," he commented.

In January, the Clemson Board of Trustees voted to raise the student health fee from \$45 to \$55. The board cited a growing rate of inflation and a fixed university enrollment along with the expense of fringe benefits for health service personnel as major reasons for the increase.

"Auxiliary services such as the dormitories, the food service, and the infirmary must, by state guidelines, remain self-supporting," reported Barnett. "They must change enough per student to meet their expenses."

Tuition and matriculation fees go directly to the state to buy bonds for state buildings. They money does not become a part of the university's budget.

Student university fees are pooled with state appropriations and a university miscellaneous fund to provide the educational budget. The university fee per semester in 1978 for a full-time South Carolina resident was \$290 and \$640 for a full-time non-resident. These fees are expected to remain the same for 1979. Currently, the state pays \$3,430 per full-time student per year.

"There is a clause in the 1979 appropriations bill as introduced by the Ways and Means Committee to the House that states that university fees for 1979 cannot be more than they were in 1978," said Barnett. "We are hoping that more funds will be appropriated to insure that, even if they'd let us, we would not have to raise fees."



Photo by Hatfield

BARNETTE

Stadium scheduled for summer completion

By David Baxley
News Writer

After several structural and design changes, the upper deck addition to Clemson Memorial Stadium is finally on its way to completion.

The original deadline of the upper deck expansion has been extended to July 31, 1979, and work is still going on daily. According to Melvin E. Barnette, vice president of business and finance, the new facility, when completed, will be much nicer than it has been in the past.

The new addition will house two levels that will be partially enclosed in insulated glass. The press and the president's box will be on the second level also known as the Club Level. The president's box and the pressbox will be behind glass and on both sides of these will be VIP sections with permanently installed folding type chairs.

The lower level of the upper deck will have an elevated camera area that will span ten yards on each side of the 50 yard line. On both sides of the camera area, there will be media rooms for reporters.

There will also be a darkroom behind the camera area, a dry-goods area, several concession booths and restrooms on both levels. Along with the additional deck the contract also includes new scoreboards at both ends and seating for handicapped persons between the South stands and the West end-zone.

According to Barnette, much of the mechanical work such as plumbing and wiring should have been done earlier but the necessity to speed up construction focused the attention to seating rather than luxuries.

Barnette also stated that there were several changes in construction that resulted from the soft soil condition that affected nine of the 23 columns supporting

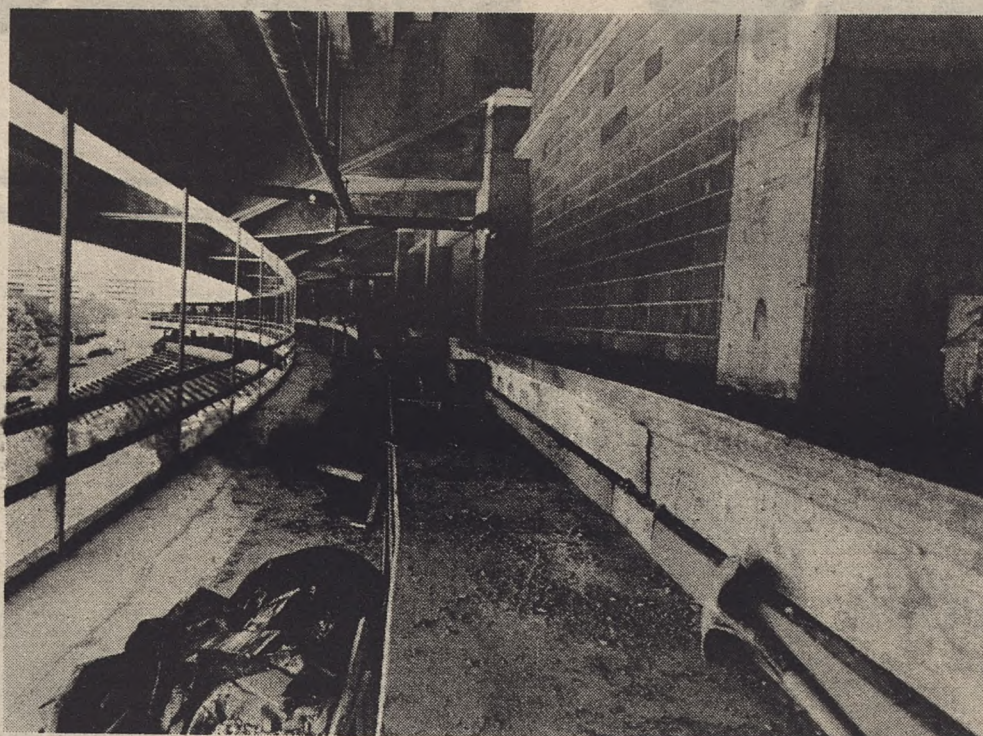


Photo by Hatfield

the new addition. "The design and installation of the stringer beams (beams that looked like steps on which the seats were placed), the side railing and the entire ramp system were changed after construction," stated Barnette.

The addition was originally planned to be constructed by mobile cranes and was to be built from one end to the other. After the delay there was the need to bring in the three tower cranes in order to meet the deadline.

In contrast to the rumor that the stadium was hurried along haphazardly after the delay, Barnette stated, "There was absolutely no question of safety and the

changes in construction made the addition even safer than originally planned. The entire feat was more of an engineering than architectural project, and the problems encountered exemplify this."

Confronted with the problem of uncertain soil, Enwright Associates, Inc., was ridden with the task of finding a feasible solution. Existence footings were "jacked-up" and new concrete was placed along with drilled piers (caissons) ninety feet into firm soil. Shear walls were also added to stabilize the structure.

Under mathematical models and extensive computer analysis, the structure has been determined safe with a capacity

crowd combined with winds of 100 m.p.h.

With construction deadlines rapidly approaching, engineers chose high, early strength concrete and decided to use more pre-cast sections than originally planned.

After much new and creative design, detailed quality control inspections of the addition were performed as sections were completed. Engineers and contractors inspected prestressing, tested questionable concrete sections, and x-rayed welded connections.

"After new problems such as rail delivery delays, equipment failure, etc. concern about completion began to mount," stated Barnette.

The last concrete was poured on Tuesday before the game with last year's game occurring on the eve before the Carolina game.

The next morning, climaxing construction involving 7,000 cubic yards of concrete and 640 tons of reinforcing steel, the gates to the upper deck were opened and with the largest crowd ever to see a football game between Washington, D.C. and Birmingham, Alabama assembled in Dea Valley.

The magnitude of this project can be considered as the equivalent of six ten-story buildings constructed under a month contract with a four month's lag in the schedule, according to Enwright Associates.

Barnette would not comment specifically on the cost of the construction but stated that the use of pre-cast materials and other problems caused the final price tag to be substantially greater than originally anticipated. Barnette was quick to note, however, that none of the problems were because of mistakes made by the architectural, engineering, or construction firms.

"They all did an exceptional job by finding feasible solutions to many problems and by completing the structure by the original deadline as far as seating was concerned," concluded Barnette.

Organization Appropriations

Organization	Amount Allocated		
Aero Club	\$572	Gymnastics Club	2,390
Agricultural Econ Club	712	Horticulture Club	1,520*
Agronomy Club	1,532	Hotline	1,531
Alpha Epsilon Delta	777	Inst. of Electrical and Electronic Engr.	635*
Alpha Phi Omega	914*	Lacrosse Club	2,540
Alpha Tau Alpha	262*	Math Club	205*
Amateur Radio Club	1,782	Medical Technology Club	735*
American Ceramic Society	762	Microbiology Club	1,148
American Dairy Science Association	2,242	Model United Nations	3,172
American Institute of Architects	2,685	Mortarboard	500*
American Institute of Chemical Engr.	2,436	Mu Beta Psi	510*
Association of Computing Machinery	1,049	Planning Students	1,017
American Society of Agriculture Engr.	1,347	Outing Club	1,162
American Society of Civil Engineers	712	Pershing Rifles (Company C-4)	945*
American Society of Mechanical Engr.	1,552	Pi Alpha Xi	555*
American Society of Personnel Admin.	672	Pi Mu Epsilon	20*
Associated General Contractors	1,729	Pre-Vet Club	1,027
Angel Flight	1,277	Psychology Club	700*
Arnold Air Society	672	Radio Control Flyers	235*
Biochemistry Club	812	Rifle Club	2,026
Block and Bridle Club	2,682	Rod and Gun Club	814
Botany Club	747	Rugby Football Club	3,171
Bowling Club	3,158	Russian Club	517
Calhoun Forensic Society	450*	Sailing Club	4,282
Calhoun Literary Society	2,560*	Scabbard and Blade	604*
Capers	947*	Scuba Club	280
Central Spirit	1,400*	Ski Club	1,180*
Cheerleaders	7,978*	Society of Woman Engineers	807
Chi Epsilon	1,048*	Society for Advancement of Ag. Education	580*
Clemson Dancers	1,472*	Society for Advancement of Management	454
Clemson Football Club	1,886	Society of Physics Students	867
Clemson Players	7,451*	Sociology Club	905
Clemson Rangers	1,692*	S.C.S.S.L.	1,154
Collegiate Civitan	1,015*	Spanish Club	767
Cooperative Education Club	1,048*	Speakers Bureau	16,150*
Delta Sigma Nu	707*	Sports Car Club	1,174
Delta Sigma Rho-Tau Kappa Alpha	430*	Student Government	20,171
Dixie Skydivers	3,487*	Student League for Black Identity	2,206
EMT Club	1,576*	Student Mechanization Club	1,742
English Club	472*	Student Nurses Association	1,507
Entomology Society	917*	Tae Kwon Do Club	623
Food Science Club	1,046*	Wildlife Society	852
Forensic Union	7,622*	Water Ski Club	3,332
Forestry Club	870*	Zoology Club	1,162
Forest Products Research Society	1,159	93 organizations	\$170,000
French Club	767		
Frisbee Club	612		
Geology Club	1,692		
German Club	737		

These figures were passed by the Student Senate on April 2, 1979 and have since been passed by Dean Walter Cox, vice president for student affairs. They still have to be approved by the university budgeting office. Organizations with stars received 100 per cent of their requested funding.

Salary problems raised again in faculty senate

By Charles Bolchoz
News Editor

In its meeting Tuesday, April 17, Faculty Senate again raised the issue of low faculty salaries. President William Steirer, associate professor of history, also passed on his "gavel" to Horace Fleming, associate professor of political science and the newly elected Faculty Senate president.

Darrell Hickman, assistant vice-president of budgets and systems, spoke before the senate about Clemson's five-year plan and its effect on faculty salaries. He said that the Board of Trustees had requested him to conduct a survey comparing Clemson with other peer institutions in the area of faculty pay.

The other institutions included in that survey are the University of Georgia, Georgia Tech University, Auburn University, Virginia Polytechnical Institute and North Carolina State University.

This survey will gather information concerning faculty personnel, their experience, and other factors affecting pay. This information will then be graphed and compared according to discipline and faculty level (instructor, professor, etc.).

However, Hickman pointed out, "The other universities will be identified only by A, B, C, D, or E in order to protect personal privacy." He added that only five per cent of the information had been gathered so far.

Some senators protested that special endowments to professors of reputation will

not be included in the study. Hickman explained that this move will eliminate the specialization of a university in academic areas. The senators protested that the universities are supposed to be peer institutions and should be rated equally. Hickman conceded the point and agreed to include those special endowments in the survey.

Hickman also explained how budgeting was arranged for the five-year plan. "We asked departments to make a list of what they needed. What we got back was a wish list." The budgeting office then requested departments to assign priorities to the things they needed. The budgeting office then took these lists and made an overall list for the university.

In other business, Faculty Senate discussed the problem of grade inflation at Clemson. Former President Steirer expressed his concern and the concern of Victor Hurst, dean of academic affairs, over the problem. Steirer said that there is a larger number of students receiving A's and B's than before.

Faculty Senate also discussed the Robert C. Edwards endowment fund. It was brought out that the percentage of faculty members contributing to the fund is very low.

In conclusion, the senate acknowledged a letter being sent to President Edwards commending him for his removal of the golf team from a tournament being held at a racially segregated club. The letter praised Edwards' initiative and wise judgment.

Band and chorus to honor Edwards with concert

"A Salute to President Robert C. Edwards" public concert will be presented on Thursday, April 26, by the Clemson Concert Band and Chorus.

The program begins at 8 p.m. in Littlejohn Coliseum and admission is free.

News Briefs

"This will be a chance for the general public to show its appreciation for what President Edwards has done for Clemson University and the Clemson community during his 50-year association with the school and his 21 years service as president," says music department head John Butler.

The concert program will begin with "The President's March" played by the Concert Band. Piano soloist Lillian Harder and the band will then perform Carl Maria von Weber's "Konzertstueck in F Minor," and the Chorus will join them for Beethoven's "Choral Fantasy in C."

The Band and Chorus will also perform Sibelius's "Finlandia" and Brahms' "Academic Festival Overture."

The Chorus alone will sing three selections by Stephen Foster—"Some Folks,"

"Oh, Susanna" and "De Camptown Races"—and selections from Randall Thompson's "Frostiana" with words by Robert Frost.

Of course, to pay tribute to a man "whose blood runs orange," the program will close with the Clemson Alma Mater and "Tiger Rag."

Benefit run

Clemson University athletes Chubby Wells and Derek Johnson will anchor a 30-mile relay run April 22 to raise money for the Shriner's Hospital for Crippled Children of Greenville.

Participants in the First Annual Fiji-Shriner Celebrity Run will leave the university's Bowman Field at 9 a.m. Sunday with the last leg reaching the hospital on Pleasantburg Drive at 2 p.m.

The event is coordinated by the Phi Gamma Delta fraternity at Clemson. Collection jars are at several locations around Clemson for anyone wishing to participate in the event by making a donation.

Honor society

Twelve Clemson University researchers—faculty members, alumni and graduate students—were initiated by Sigma Xi at the honor society's annual banquet at Holiday Inn.

Elected to full membership in the society, which honors excellence in research, were Richard Hegg, James C. Hite, Carl Ray Lindenmeyer, William Clarence Maddox, Hideaki Kaneko, all of Clemson, and David Roy Alverson of Seneca.

Associate members initiated were Thomas Clinton Gore, Michael Frederick Gretner, Pamela Sperling, David Michael Talbert, all of Clemson, Katherine Richards of Central, and Richard Albert Schmalz, an alumnus now living in Springfield, Va.

Sigma Xi president Rudy Elling of Clemson's civil engineering faculty turned over the society's gavel to Robert Edwards, associate professor of animal science, for the coming year.

Press awards

Taps and The Chronicle both won awards at the spring convention of the South Carolina Press Association-Collegiate Division held in Myrtle Beach this past weekend, April 6-8.

Taps was selected the Best Yearbook of Division 1 and the Best Yearbook in the state. The Anderson College Columns was chosen as the Best Yearbook in Division 2.

Division 1 includes all schools having an enrollment of 2,000 students or more. Division 2 consists of those having less than 2,000.

The Chronicle was selected as the Best Magazine in Division 1. Converse College's magazine, The Converse Concept, won Best Magazine in Division 2 and the state.

In the newspaper division, the Gamecock from the University of South Carolina was chosen as the Best Newspaper of Division 1 and the state. The Carolinian from U.S.C.-Spartanburg won Best Newspaper from Division 2.

Judging in the magazine and newspaper sections was based on one issue from a year long period ending October 1, 1978. Yearbook competition was based on the 1978 edition.

Book exchange

The brothers of Alpha Phi Omega are sponsoring a book exchange. From April 30 to May 8, 10 a.m.-4 p.m., students can bring their used books to Room 165 next to the student government offices on the Union Plaza. APO will store books over the summer and sell them at prices set by the owners next semester, minus 10 per cent for handling costs. In this new location, APO will use a new computer registration system. By having books turned in this semester, APO hopes to have a good selection to sell in the fall. They urge all students to take advantage of this new system.

Student senate approves new escort policy

By Beth Reese
News Writer

At the regular Senate meeting Monday night a controversial resolution was passed concerning the escort policy of individual dormitories.

The resolution, which only passed after some frequently heated discussion by the Senators, will give individual dorms the freedom to determine their own escort policy. Within the first three weeks of the 1979 fall term, the Resident Assistants and

Dorm Council members of each dorm should hold a referendum to determine the necessity of an escort policy for that dorm.

For a dormitory to eliminate its escort policy, a three-fourths majority of the residents in that dormitory are required to vote against the escort policy. If the dormitory doesn't vote to do away with the escort policy at that time, in the future 10 per cent of the dorm residents can petition to hold another referendum on the issue.

Also concerning the escort policy, a visitation regulations bill was passed. This bill provides for the modification of the visitation regulations in the Student Handbook; the phrase "except in those dorms that have voted out the escort policy" will be added to the regulations.

On other business, Senate passed a resolution to clarify the dates the finance committee will hold budget sessions. There had previously been some confusion as to exactly when the student organizations requests could be heard at the budget sessions. The resolution provides for the months of February and March to be used for those hearings.

The finance committee put a resolution before the Senate concerning the modification of student organization emergency funding regulations. A request may not be made by an organization for some project that was planned or budgeted in the

previous year. The resolution had come out of committee favorably and was passed unanimously by the Senate.

A resolution from the general affairs committee to increase the honorarium for the president of the student body was passed by the Senate. This bill will increase the student body president's honorarium to \$250.

Another resolution from the general affairs committee, providing for more student representation on the athletic council, was passed unanimously by the Senate. This legislation will make the president of

the student body a full voting member of the council, along with the president of the senate.

Senate passed a bill to modify and make more explicit the election qualifications of candidates for student government offices. The president and vice-president of the study body are required to have a minimum grade point ratio of 0.3 above that which is required to graduate. Other officers must have at least a 2.1.

Senate voted to send back to committee for further research a resolution on the naming of the parking lots on campus. The bill will provide for the erection of signs at the entrance to each parking lot with the official designation of that lot.

Senate President Jeff Anderson encouraged senators to attend next week's meeting, the last of the year, when the appointments to the president's cabinet will be voted on.

Taps distribution scheduled

One of the school year's most anticipated events, the distribution of the yearbook, Taps, will occur daily from 8 a.m. until 5 p.m. in the basement of Mell Hall during exam week.

This edition of Taps promises to please almost everyone. Containing 560 pages, the book covers almost all aspects of life at Clemson University. The book is divided into four basic sections: features, sports, group pictures, and individual pictures.

The features section covers a wide variety of events, people, and topics. Included in the features are special sections on Presidents Edwards and Atchley, coverage of visiting celebrities and speakers such as Bob Hope, Boston, and Dr. Leonard Wolf.

Student life activities, such as registration, homecoming, and Bengal Ball are

featured, as well as special topics like the lab animal controversy and the "Toga" madness. The Gator bowl is covered as a feature as well as a sports event.

Taps has covered sports again this year. In addition to the usual coverage of varsity sports, other sports-related events were covered. These include intramurals and training.

In addition to features and sports photography, group and individual photos are, of course, included in Taps. This year, the group shots are divided into three sections: Greeks, honorary and professional groups, and special interest groups. Individual photos, with an increase of 600 from last year, were handled by a computer to reduce mistakes.

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Farewell to a true Clemson Tiger

The accomplishments of President Robert C. Edwards have been loudly sung since the announcement of his upcoming retirement. Such words of praise are well-deserved.

Under Edwards' leadership Clemson University has become the state's leading academic institution, seen its enrollment triple and its budget increase almost nine-fold the 1959 figure. Extensive construction, integration, and the first female students all came to Clemson under Edwards' 20 year administration.

Edwards' service to Clemson has been of continued benefit to Clemson alumni, athletics, and academics alike. Alumni contributions have grown with the university, continually improving the quality of education and facilities and inspiring continued contributions in turn.

Even the most casual observer will notice the president's love of Clemson's athletic teams. Edwards often has been tagged as "the Clemson fan in the president's office." His loyal attendance at pep rallies is infectious, and it has been a rare occasion when Edwards was not at a home football or basketball contest.

The president's support has been instrumental in establishing six of Clemson's nine colleges. Programs to construct major academic buildings and facilities have flourished under Edwards' administration. The Robert Muldrow Cooper Library was constructed and expanded, making it probably the finest library in the state. Ph. D. programs in several disciplines were developed.

Edwards has not neglected student facilities for academics. Ten dormitories, Fike Recreation Center, the Edgar A. Brown Student Union Center and the Redfern Medical complex were built or remodeled during the Edwards' administration.

The president's interests in athletics have been shared with students in the construction of expanded tennis facilities, Littlejohn Coliseum, and major additions to Clemson Memorial Stadium, better known as "Death Valley."

Clemson's president of two decades has consistently kept the students' interests at the forefront of his concerns. One of his most important decisions has been to resist the lure of the "numbers game," limiting Clemson's fulltime, on-campus enrollment to 10,000 students. Where other schools have encouraged ballooning enrollment for the accompanying income, suffering a loss of quality and student identity, Edwards has held a firm rein, insisting on seeking a limited number of quality students to produce what Edwards proudly calls the "finest student body" ever.

Above all else, Robert C. Edwards has not been an intimidating administrator but a friend to Clemson students. He has always been readily accessible to the student body, a trait not seen in most administrators. He has also identified with the students.

Edwards has joined the football team, leading it as it ran down the grass bank into Death Valley. He has appeared with Tiger Band, dotting the "i" as the musical group spelled "Tigers" for enthusiastic home football crowds. Indeed, he has been one of Clemson's leading cheerleaders. Proudly wearing a bright orange tiger paw on his nose, he has identified himself with thousands of students and fans.

Whether meeting with student groups, welcoming freshmen to Clemson at the picnic on his front lawn, or presiding at graduation, President Robert Cooke Edwards has been involved in Clemson and its students. **The Tiger** salutes him.



Letters policy

The Tiger welcomes letters from its readers on all subjects. Please type letters, triple-spaced on a 65-space line.

All letters, 200 words or shorter, will be published after unquestionably routine editing (for grammatical and spelling errors), except in those cases in which a letter is blatantly obscene or potentially libelous.

In these special cases, if a majority vote of the Editorial Board of the Tiger deems it necessary, a letter will be withheld in part or in full.

Authors of letters should sign their letters, with their address and phone number included. In cases in which a letter has been composed by more than one person, all authors should be listed, with their addresses and phone numbers.

What's Your Viewpoint?

Write to

the tiger

footnotes

"We were making promises left and right; we didn't know what we were saying."—Mike Ozburn, former Student Government president, jesting about his campaign for election last year.

"I'm David Stoudenmire, editor of the Tiger"—David Stoudenmire, editor of Taps, introducing himself at a reception honoring President Robert C. Edwards.

"I wish that I was black, so that I could get into the University of Virginia law school."—Kenny Port, graduating senior, commenting to the HEW review committee.

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viewpoint

Seaport plans another political boondoggle?

By Sally Baker
Guest Editorial Writer

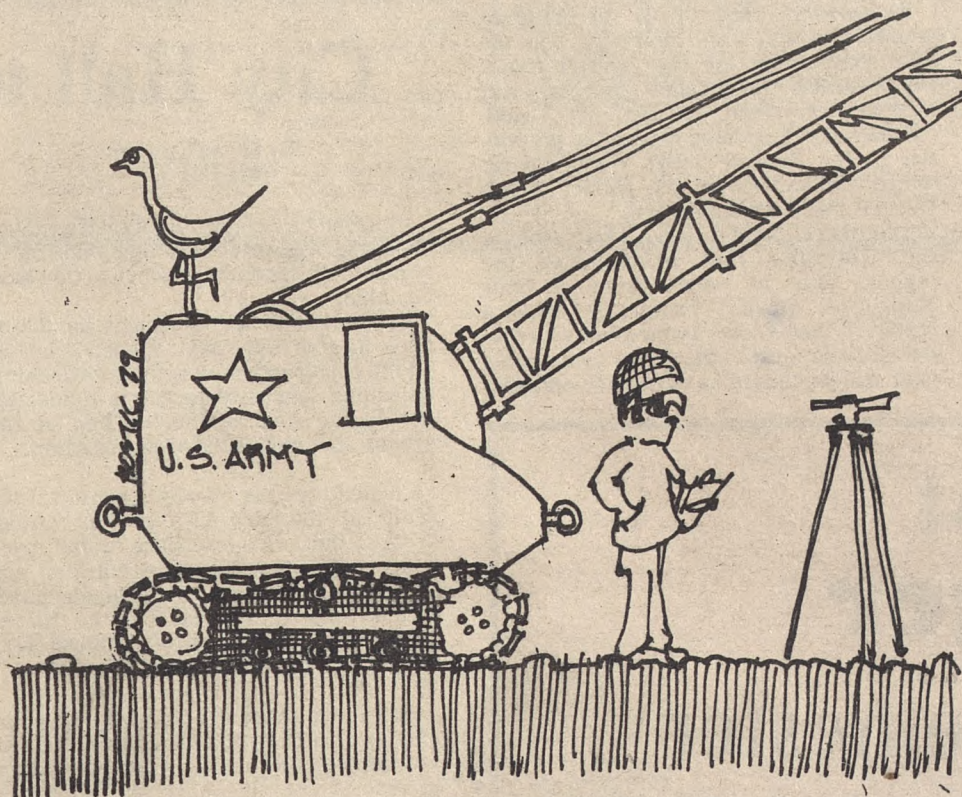
Be Aware, Clemson!! You have two of the most unique areas in the entire United States. I am speaking of Hobcaw Barony, a forest-marine area, and the Belle W. Baruch Forest Science Institute in Georgetown. There are no other places in the entire United States with their particular combination of beaches, marshes, and forests which represent a maritime-forest ecosystem.

They are closer to being spoiled now than ever in their history. Winyah Bay, along which Hobcaw lies, may soon have a ship terminal planted right in its unspoiled center, which will most likely change if not decimate this distinct research area and wildlife refuge.

Who is to blame? The United States Army Corps of Engineers?

Partially, but its first cost-benefit analysis ratio was less than one. The Corps usually discontinues a study when the ratio is this low, but take note. Some of the citizens of Georgetown and others didn't accept the first cost-benefit ratio and have asked the Corps to do another study on the secondary benefits. Although regulations equally applied to all federal water project studies restrict the Corps to calculating only primary benefits, Congress made an exception in honoring Georgetown's request to study the secondary benefits. The Corps will make a statement on the secondary benefits study in June.

Another fact you should consider is that the ocean depth is 27 feet where it meets



Well, I can dig a 35 foot harbor,
but I wonder where they want the dirt?

the bay, yet plans are to dredge the bay 35 feet. Do you think the Corps plans to dredge the ocean? Impossible, you say?

Then why have a 35 foot cut? Georgetown has a ship terminal at present with a 27 foot cut. But the people of Georgetown are

hell-bent on having a 35 foot cut to a new terminal eight miles out of the city.

Not only will your land be disturbed, but the entire Winyah Bay area is an unspoiled refuge to be exploited. The Tom Yawkey Wildlife Central was entrusted to the care of the state in 1976. It is comprised of 20,000 acres and is best known for its abundance and variety of migratory waterfowl. It, as well as the rest of the bay, is also known for the excellent habitat it provides for furbearing and game animals, thousands of shore and wading birds, and endangered species such as loggerhead sea turtles, brown pelicans, red-cockaded woodpeckers, peregrine falcons, and golden and bald eagles.

History is another factor. Winyah Bay and the surrounding lands contain historic remains from Indian mounds, Civil War forts, rice mills, and the North Island Lighthouse, now listed on the National Register of Historic Places, as well as the old plantations that grace the bay.

The owner of the proposed site, which is a historic plantation, refuses to sell, commenting, "We'd make a lot of money on it, but there are some things more important. This is something you can't replace."

I'm sick of these disasters, but we cannot sit idly by while another political boondoggle once more despoils one of the grandest and most unique areas of our South Carolina coastline, as well as a part of our educational and research experience here at Clemson.

letters

Premature fear may discard the Atom

I live near the Oconee nuclear power station, and I'm afraid.

I'm alarmed by some problems which have surfaced because of the Three-Mile nuclear power plant malfunction. I'm alarmed not so much by the idea of a nuclear disaster as I am by the alarmists—those who cry that we have been forewarned and are now being judged, those who rallied most recently around *The China Syndrome*, a movie aimed at the box office not the ballot box. I'm alarmed by those who are trying to mount a mail-crusade opposing nuclear power.

However, I am following their suggestion; I'm writing. But I write in support of the continued study of nuclear power's potential. Since energy is supposedly a critical problem, let's find out about the risks and the benefits of nuclear power. If it is as dangerous as some would have us believe, then we must decide if we want to so jeopardize ourselves. But if the benefits outweigh the risks, let us not be so naive as to prevent a good thing. The logical extension of some of the reactionary rhetoric in

the aftermath of the nuclear powerplant scarce would have us outlawing all death-inducers—automobiles, alcohol, and tobacco. It's ironic what we overlook for the sake of convenience. I hope this current wave of reactionism doesn't inhibit an objective study of the convenience as well as the consequence of nuclear energy.

Finally, I hope it takes more than radio interviews of children to persuade Americans that nuclear power is inevitably tragic. I think the mentality of some in response to the recent mishap corresponds to that of the child who was asked what "evacuation" meant. He thought it was what happened when there was a big bubble about to burst. I hope the big bubble of inadequately-informed, media-crazed "public opinion" doesn't lead us to a premature evacuation of what may be a rewarding source of energy.

Robin Hunt

Sports not complete

Why is it that the *Tiger* cannot cover any but Athletic Department-sponsored sports?

Certainly football, basketball and baseball hold keen interest among

students and faculty. They deserve coverage (although reading a story headlined "Tigers Whip Citadel 58-3" six days after the game may not come as surprising or particularly informative news.) And Athletic Department-sponsored sports such as men and women's fencing, cross country and tennis deserve print, particularly when they are outstanding.

But why the nearban on sports not directed from Jervey? Many students and faculty run for fitness, yet only when an Athletic Department coach wins a marathon does the activity capture the *Tiger's* attention. Students and faculty play racquetball and tennis, lift weights and swim, yet never an article on benefits, dangers, techniques or tournament winners in these sports.

Many, if not most students, play an intramural sport. Why couldn't the *Tiger* keep standings, published the scores, possibly cover a championship game or interview an intramural hero?

What of the sports clubs? The rugby team won the state championship for the second time in three years two week ago, yet in last week's *Tiger*, no mention. The lacrosse club, sailing club, skydivers—all are exciting, competitive sports with more players and followers than many of the Athletic Department's teams, yet they are rarely if ever covered.

Most a scholarship athlete participate before an activity can be recognized as a sport? Do the officials at Jervey intimidate the *Tiger*? Why is sports so narrowly defined?

John McManus

Don't look back; plan for tomorrow

The last student body election created problems which will hopefully never happen again on this campus. It resulted in hard feelings, many problems, and many unanswered questions. I have read the readers' letters and staff's articles in *The Tiger*. I agreed with some and disagreed with many.

But that is not important now. After over one month of investigation, re-voting, and appealing, this campus now has a new student body president. Still, there appears to be debate and argument on the election. It is the opinion of this author that it is time to stop bickering and get on to next year. If those who insist on finding so much fault with the last election would put their energies into something constructive instead of destructive, the problems with the last election will not occur again.

Anyway on this campus can criticize; it takes a real hero to do something about it.

Let's not live in the past. No progress is made by discussing the problems of yesterday, only in making sure that they don't happen tomorrow.

David Morison, Jr.

Fraternities participate in Greek Week activities

By Brian O'Connor
News Writer

The Interfraternity Council kicked off this year's Greek Week with a drop-in held in honor of President and Mrs. R.C. Edwards at the Alumni Center on Monday afternoon.

Fraternities have been competing for overall awards throughout the year. There are four categories of competition; three of these have already been won.

The Overall Scholarship Award, which goes to the fraternity with the highest overall grade-point ratio, was won by Alpha Gamma Rho.

Chi Psi and Alpha Tau Omega tied for the Overall Homecoming Award, which goes to the fraternity with the most accumulated points for Tigerama and Homecoming displays.

Sigma Nu won the Overall Sports Award by accumulating the most points in major IFC sports throughout the year. The six

major sports were softball, football, track, basketball, volleyball, and soccer.

Competition through Thursday of this week decided the winner of the Overall Greek Week Award. This award goes to the fraternity with most accumulated points in other events, such as ping pong, bowling, and Fraternity Sing.

Fraternity Sing, held in Tillman Auditorium at 7 p.m. Thursday, was the last competition for the Overall Greek Week Award. David Dukes, secretary and athletic chairman of the IFC, said, "Fraternity Sing could determine the winner of the Overall Greek Week Award, which will determine the winner of the Overall Achievement Award."

The Overall Achievement Award goes to the fraternity that accumulates the highest total of points from all four categories. During Fraternity Sing, a fraternity and a sorority member who contributed the most to the Greek system this year will be chosen as Greek god and goddess.

dess.

Greek Week concludes Saturday with the Greek games and a dance. Greek games begin at 1 p.m. on the intramural field behind the "frat" dorms. None of the Greek games count toward the Overall Achievement Award. "The Greek games are just for fun," said Dukes. Fraternities

will participate in events such as the wheelbarrow race, the three-legged race, beer chugging, and a keg throwing contest.

According to Dukes, the climax of Greek Week is the interfraternity dance Saturday night at the Clemson Armory, where the overall awards will be presented to the winning fraternities.

City Hall to be remodeled

By Susan Keasler
News Writer

Clemson city council approved a motion changing original remodeling plans for city hall facilities during council action Monday night.

Original remodeling designs for the offices, located in the old train depot, included the construction of a ramp for loading, unloading, and assistance to the handicapped in the front of the building. A rail system surrounded the proposed ramp.

Council members voted to construct the ramp at the side of city hall offices because there is more space in that area, which will allow for easier parking and loading or unloading. The change expanded the rail system to surround the front of the building and the ramp, adding \$449 to the original remodeling sum.

The third reading of a sewer use ordinance passed unanimously after an amendment was added requiring council to plan, within the next six months, a sewer system to include areas of the city

not covered by the present sewer use ordinance.

Council retired into executive session and appointed Davis McGregor to the Planning Commission.

Bob Whitaker, of the Macguire engineers, architects, and planners company in Spartanburg, presented a report on the planned sewer system.

During the public session, Mayor Catherine Smith announced that Clemson has been pre-approved to receive federal funds as a community development grant in the amount of \$400,000. Final approval for the grant is expected in late July.

One citizen suggested that garbage pickup be conducted more often than once a week during the summer season, and asked council to consider this suggestion.

Council member Betty Janzen suggested that council consider extending the final deadline for paying business license fees from March 31 to some date after the April 15 income tax return deadline.

Several local residents discussed with council the procedure for appealing a ruling made by the Board of Adjustments.

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Students gain honors

By Mark Sublette
News Writer

More than 1200 Clemson University students were cited for superior scholastic achievements and excellence in non-academic areas during the annual Honors and Awards Day ceremonies held on Wednesday, April 11.

Student recipients of the Algernon Sidney Sullivan Award, the university's top non-academic award, were seniors Saundra L. Hodge of Sumter and Michael M. Ozburn of Athens, Ga. They were recognized for "excellence in maintaining high ideals of living and generous and distinguished service to others." Also receiving the award was the Honorable Earle E. Morris, Jr., a past lieutenant governor of the state, who was cited for his work with the mentally retarded. Morris is a Clemson alumnus.

The oldest award at Clemson, the Trustees Medal, given to the best orator in the student body, went to Alan L. Raflo of Leesburg, Va., a senior majoring in economic zoology.

Four students were named to receive the Phi Kappa Phi award, which is given to upperclassmen who have earned all their credits at Clemson. They were Michael E. Brown, a senior from Spartanburg, Mark A. Buechler, a junior from Louisville, Ky., Linda M. Crenshaw, a junior from Central, and Jane W. Cutler, a senior from Greenville.

Cutler also received the American Association of University Women Award, along with four other seniors. They were

Virginia B. Dwyer of Pickens, Anita L. King of Dothan, Al., Barbara J. Ramirez of Seneca, and Gayle E. White of Anderson.

The Phi Eta Sigma Award, which is given to the graduating senior with the highest grade point ratio (GPR) also went to Cutler, making this the third straight year that the recipient has had a perfect 4.0 GPR.

The awards day ceremonies concluded with the unveiling of a roadside marker, dedicating the portion of United States highway 76 between Clemson and Anderson at Thomas Greene Clemson Parkway, after the founder of the university.

WEPR receives awards

Clemson University's staff of radio station WEPR-FM (Greenville-Spartanburg) has captured two awards in the 1978 broadcast competition of the Radio and Television News Directors Association of the Carolinas.

Taking top honors in the documentary category was "In the Shadow of Standing Indian," a program examining activity on a segment of the Appalachian Trail. The broadcast aired last August and was produced by Clemson University student Michael Ausherman, a part-time production assistant with WEPR and a student in Clemson's department of recreation and park administration.

Coverage of Clemson football coach Charley Pell's resignation in December

took top honors in sports reporting. The award-winning segments, including locker-room interviews with players, were produced by Keith Hamlin, a production assistant and Clemson engineering graduate student, and Bo Bierley, news director at WEPR.

WEPR station manager Lily Hall said she hoped the awards would "create a greater public awareness of the quality and scope of programming being produced by public radio in South Carolina."

WEPR was one of only two South Carolina stations to receive awards. Commercial station WFBC (Greenville) was cited for best spot news coverage.

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Citizen voices allegations against city council

By Susan Keasler
News Writer

Henry C. Burdette, Jr. of Clemson has requested federal assistance to resolve the legality of several actions of Clemson city council during recent years.

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Burdette says council has acted questionably concerning several issues, including aspects of the sewer system soon to be installed. "People have been paying 50 miles of taxes for sewerage for 12 years and aren't going to get sewers at all under the present program," said Burdette.

Ed Simpson, Jr., District Three Pickens County House member, submitted a letter from Burdette to the office of the attorney general of the state and requested the office to respond to the parties involved.

Burdette indicated that he has certain information that "he'd hate to be forced to give the details to the Justice Department, but will if forced to." Joe L. Allen, Jr., deputy attorney general for the state, has requested Burdette to "furnish the 'details' to that office."

"I either have all the facts to back up all the charges or can get them from Clemson city records or the bank," stated Burdette. "There's not only been breaking of the

law. Moral issues are at stake here too."

Allen also requested Chris Olson, Clemson city attorney, to furnish particular information that Burdette made reference to in his letter, and any other information or comments that might be helpful concerning the issue, to the attorney general's office.

The South Carolina Law Enforcement Division (SLED) has already investigated council actions. Billy Wilkins, Jr., solicitor of the thirteenth judicial circuit, and an officer of SLED have stated that "no charges are to be brought in Clemson."

However, Burdette said he would "be most happy to work with United States marshalls...All the charges I sent you (officials in the U.S. Department of Justice) exist. Under the color of law if we can't get any help from the U.S. Department of Justice, about the only thing the people of Clemson have left to do is to get their shotguns and go make a citizen's arrest..."

According to Burdette, council broke Section 9 of the sewer bond law, by not leaving funds from the sewer tax to guarantee payment of sewer installation and user fees. Therefore, council misappropriated upwards of \$400,000.00 of sewer funds.

Burdette also claims that council entered into an agreement with real estate developers in April 1976 to put sewers outside the city limits, but did not make this agreement legal until August of the same year.

Six thousand dollars of city tax funds were loaned to a private individual, said Burdette. "Council broke the Home Rule Act on all the above charges."

Burdette also claims that council denied citizens their rights under the First Amendment by ignoring a petition submitted to council. According to Burdette, South Carolina law states that a petition is supposed to be placed on the ballot of the next general election.

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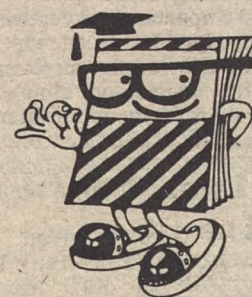
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Hydrogen: a possible solution to energy crisis

By Paul Hansen
News Writer

President Carter, in his energy speech April 5, "painfully" confirmed the warnings and rumors of the past few months. Upon deregulation of oil, the price of gasoline is going to increase rapidly, approaching a dollar per gallon by the end of the year.

It is expected that the price will not stabilize at this point, but will most likely continue to rise as production falls. American consumers, on an already inflation-pinched budget, find that the alternatives are few, and for most, energy consumption will now rank with food and housing as the primary budgetary concern.

A promising alternative to this energy dilemma is the extensive research now being done on the use of hydrogen as an alternate fuel source. A company that has been doing this type of research since the oil embargo of 1973 is the Billings Energy Corporation of Prove, Utah.

Billings chose hydrogen for its research, instead of any of the other alternatives now being studied, for several reasons. Most importantly, hydrogen is domestically producible; it can be substituted for most fuels now in use; the products of combustion are non-polluting; and the production costs are becoming competitive with oil

and natural gas. One of the several products of the company's research is now being offered to the general public—a hydrogen-fueled automobile.

Billings is offering a limited production of Dodge Omnis that are fueled by hydrogen and gasoline. The price tag for these dual fueled cars is approximately \$10,000.

The conversion to a hydrogen fuel capability involves the addition of a hydrogen storage tank (for those who remember the Hindenburg, the metal hydride storage tank is safer than the conventional gasoline tank), a propane mixer, and regulators to accommodate hydrogen in conjunction with the existing gasoline

carburation system. The hydrogen system would be primarily used for use in the city, while the gasoline system would be available for long distances.

Since hydrogen is not yet available at service stations, an electrolyzer is supplied to produce the needed hydrogen. The electrolyzer (about the size of a dishwasher and connected to household water and electric supplies) splits the water molecules and stores the hydrogen produced. A refueling process takes about 15 minutes and involves the attachment of a hose from the electrolyzer to the car's storage tank.

The electrolyzer is an expensive means of supplying hydrogen (akin to owning

your own oil well). However, with the widespread production and distribution of hydrogen from the coal gasification process, the projected cost of hydrogen will be in the neighborhood of six cents per gallon of gasoline equivalent.

Adoption of hydrogen as a fuel, Billings claims, would reduce the dependence on foreign oil, stabilize the balance of payments, and could significantly reduce pollution in the atmosphere. There are a few technological and political hurdles to hydrogen as a fuel, but Billings has begun the process. It could probably be said that Edison had some of the same difficulties getting the country to go electric.



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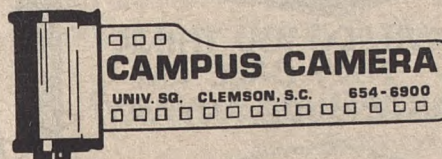
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Summer school activities planned for students

By Lesa Bethea
News Writer

With the end of the semester rapidly approaching, many of us are turning our thoughts toward summer school.

According to Reginald Berry, registrar, this summer's session will prove to be no different from any other.

All fees and other living costs will remain the same as in previous years. On-campus students will again be housed in west campus. West bank and the YMCA beach will also still be available for use by the students as usual.

Berry says he expects about 2800 students for first session and about 3300 for second session. "Second session usually has had larger attendance because highschool students who aren't able to come to the first session come to the second. Also, there are forestry people who are here for nine weeks of field training as are the RPA (recreation and parks administration) majors."

Berry says most students live off campus during summer school. "We only use about one dorm for females and one for males."

Though the university does not have any official activities planned for the summer, the Student Union seems to have a variety of interesting events on tap. These include such occasions as "Watermelon Day," "Make-Your-own-Sundae Day," and a "Fruit and Peach Bar." Most of these activities will be held in Edgar's. One beer garden is planned and some outdoor bands are scheduled to play.

No dates have been set for these events as of yet. The usuals will include movies two nights per week, also to be held in Edgar's, and video-tapes which will be

available upon request in the Union every day.

Any additional information needed can be obtained in the "Summer Sessions 1979" handbook, available in the Registrar's office in Sikes Hall.

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Union plans environmental awareness week

By Van Mattison
Assistant News Editor

Next week, the University Union will sponsor union environmental awareness week.

The purpose of the event is "to elevate the attitude and consciousness of the building's (the Union) users toward the physical appearance and the ineffective use of spaces of the University Union," according to a report issued by a union task force studying building use problems at the union building.

The task force was established by the Student Union to study and suggest programs that will improve the physical appearance and effective use of space in the Edgar A. Brown University Union.

In its report the task force recommended several solutions to improve the union. The most immediate solution recommended by the group was a week set aside to point out problems with the union's facilities.

The group's report noted several problems. One of these is the fountain in the courtyard of the first level of the union. Broken plaster and inadequate furniture in the loggia are other problems which the study noted.

The group's report noted several problems. One of these is the fountain in the courtyard of the first level of the union.

Broken plaster and inadequate furniture in the loggia are other problems which the study noted.

The report recommended that these problems be pointed out to the student body and faculty through the awareness week.

Several events are planned for the union environmental awareness week, according to Chuck Bryan, a member of the task force. He said that several "eye-catching" events are planned to increase people's awareness of several problem areas. He stated that he hoped that the week would have "some continuing and lasting affect."

The task force also recommended several other solutions on which it is working with the administration and physical plant to carry out. The task force and union are working with the physical plant to establish a better maintenance schedule and to get plastering redone on the exterior of the building. The union is working with the administration to gain more funding for improvements such as new furniture in the loggia and areas such as the Palmetto Room and Edgar's.

Bryan said that his group plans to continue its efforts into the fall. He said that the awareness program also will be part of the first week of activities for the union next year.

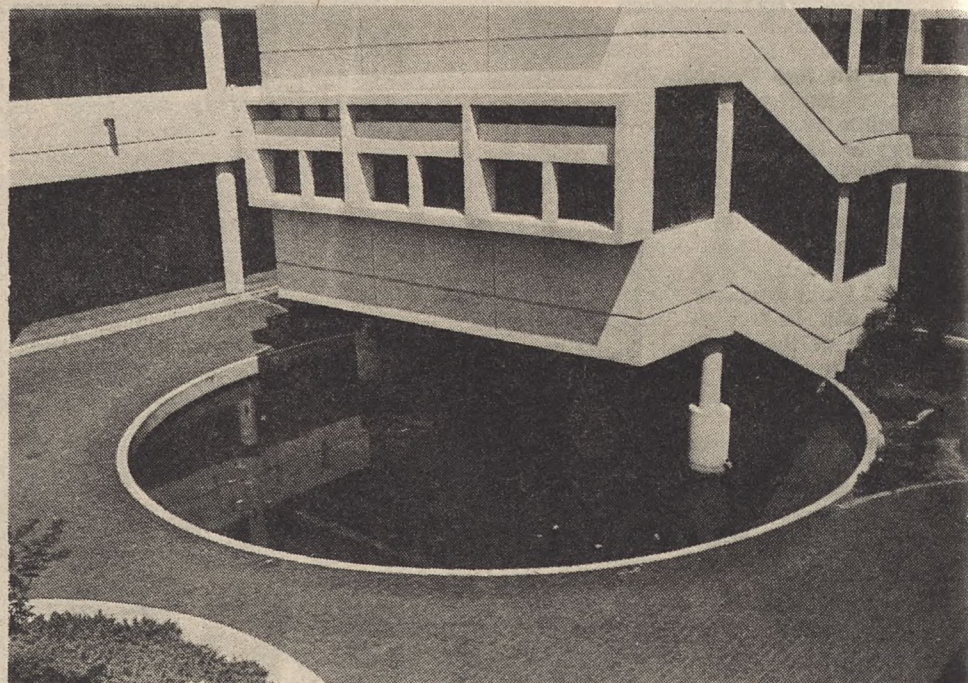


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THE STUDENT UNION has planned a week of activities to make students more aware of the rundown appearance of the union building. The courtyard fountain is one example of the problems needing correction.

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"The advice and guidance I received from your organization were invaluable in helping me obtain my present position (Digital Logic Design Engineer). I am particularly grateful for the helpful hints provided through your Job Search Seminar. I am deeply grateful for your services."

—GC, Tarrytown, NY

Female student named Truman scholar

By Jim Vaughan
News Writer

Joyce Baugh, a sophomore political science major from Charleston, has been named the first Clemson University recipient of one of the most prestigious academic awards in the United States, the Harry S. Truman Memorial Scholarship for 1979-80.

Baugh said, "After my mother had called me and told me that I had won the scholarship, I went crazy, running up and down the hall. Everyone on the hall thought I was nuts, but I really didn't expect to win. In fact, at first I was really skeptical of the whole thing, especially with all the schoolwork I had to do. Now, though, I'm really grateful to Dr. (Charles) Dunn and Dr. (Charles) Woodell who encouraged me to enter the competition."

The scholarship, established in 1974 by the Truman Foundation, was awarded to a student of exceptional academic, leadership and genuine interest in public service.

According to Dunn, faculty representative of the foundation, the purpose of the foundation is to recognize Truman's high regard for the public trust and his desire to enhance educational opportunities for young people in public service. Although Truman himself was not a college graduate, he placed great faith in education. "We must look to education in the long run to wipe out that ignorance which threatens catastrophe," Truman once said.

The qualifications and selection procedures are extremely rigorous. To qualify, one must be a sophomore with a B average and in the upper fourth of his

class, and have an interest in public service.

Nominations are based on potential from extracurricular activities and academic records from high school and college. Plus, three letters of recommendation, a high score on the Truman Qualifying Test, and an essay of 600 words or less on some public issue are required. Baugh wrote on the progress that blacks have made in America.

Then, the semi-finalists are interviewed by the trustees of the foundation in February. Winners of the scholarship,

which awards up to \$5,000 per year for four years including graduate study, are announced in April.

Baugh added, "I want to attend law school, and then pursue a career in the Department of Housing, Education, and Welfare or the Justice Department. I have a real interest in education and working with people."

Woodell, who helped coordinate the program, was almost as enthusiastic about the award as Baugh. He remarked, "This is really something for Clemson University. Joyce has received a very, very prestigious award."

What's Your
Viewpoint?

Write to

the
tiger

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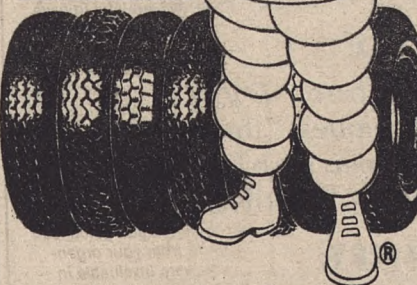
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UNION SPOTLIGHT

WEEKLY UPDATE OF UNION ACTIVITIES

CDCC PRESENTS



SATURDAY APRIL 21
1:00 pm Y-BEACH

\$3.50 Tickets & Shirts go on sale at
the Union Ticket Booth April 10
11am-1pm & 4pm-7pm

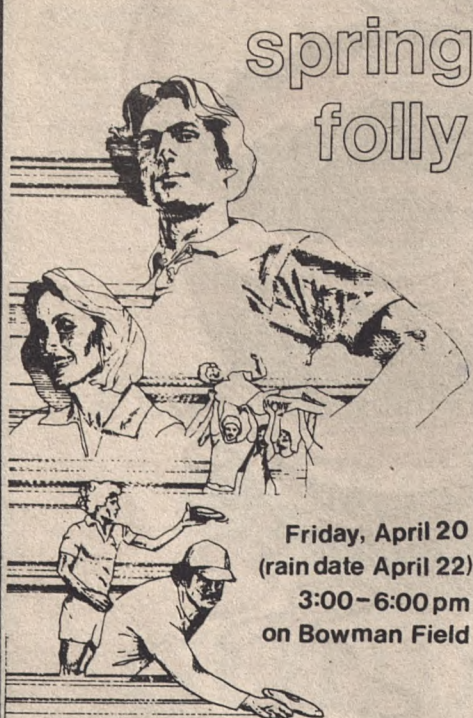


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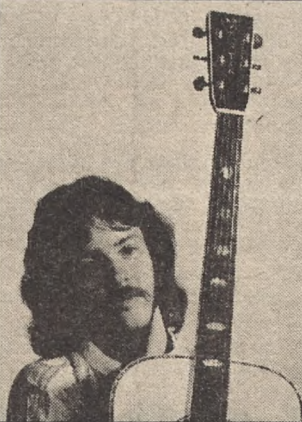
Stop at the Program Office and ask
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WIN \$20⁰⁰ Gift Certificate
for submitting short course
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JEWELRY SALE
10 AM-5PM
UNION PLAZA



Friday, April 20
(rain date April 22)
3:00-6:00pm
on Bowman Field



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"Contemporary Acoustic Style"

9, 10, 11 pm 50¢
next week: David Ezell

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Spring Cleaning

Union Environmental Awareness Week

April 23-27, 1979

Sponsored by CUU Board



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Friday April 20 only

9pm 50¢

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**Games & Rec
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April 24-25

7 pm-Rec Area
Prize to Winner

**Country
Empire**

April 20-12 noon
Union Plaza

The "Country Empire" is
the Navy's country band.
They will be performing to
promote the appearance
of the Blue Angels in
Anderson on April 21.

In
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Spot...



Y-FLICKS:

FIST, thru April 21
MAGIC, April 23-28

FREE FLICK:

PAPER CHASE, April 22

VIDEO:

"Frisbee Dynamics and
Techniques," thru April 22
"Remarkable American
Women," April 23-29

GALLERY:

TAPS Exhibit, thru April 21

TAPED PROGRAM LINE — 2300

The Edwards era: 1958-1979

During Robert C. Edwards' tenure as president, Clemson has matured from a small, military college to a major, well-respected university.

Since 1958, when Edwards assumed the presidency, Clemson has changed from an Agricultural & Mechanical college to the leading academic institution in the state; from an enrollment of 3,540 to that of 11,478; from a budget of \$11.2 million to one of \$94.8 million.

Fifty-eight buildings or building additions have been completed since Edwards was first named to a college administrative post, the job of vice president for development, in 1956.

A native of Fountain Inn—born March 25, 1914, the son of the late John T. and Effie Cook Edwards—Edwards appeared an unlikely candidate for president when he entered the textile industry after graduating from Clemson in 1933 with a Bachelor of Science degree in textile engineering. (Edwards had won an academic scholarship after completing the tenth grade.)

During the 1930s, Edwards excelled during his "first career," as he calls it, the textile business. He was promoted from his initial job with a Greenville J.P. Stevens plant to the job of superintendent of a North Carolina textile plant to a similar job in Norfolk, Va.

At the same time, Edwards established a family, marrying Miss Louise Odom of Red Springs, N.C. in 1935. Only a year later, R. C. Edwards, Jr. was born. A daughter, Nancy Louise, was born in 1940.

After an interruption in his career while serving active duty during World War II, Edwards became plant manager of Abbeville Mills Corporation of the Deering-Milliken organization in 1946. Two years later, the corporation promoted him to the executive position of treasurer and general manager of the Abbeville group of Deering-Milliken mills.

In July 1956, a time of great significance for both Edwards and Clemson, the 42-year-old executive made an abrupt move from textile administration to college administration, his "second career." Less than two years later, after what Edwards calls the "untimely death" of President Robert F. Poole, the Board of Trustees named him acting president. The "acting" was dropped from his title a year later—April 9, 1959—when Edwards was named permanent president of Clemson, the eighth president for the institution.

The changes that Edwards led in the next 20 years were dramatic, but not unplanned. The Board of Trustees commissioned the Cresap, McCormick and Paget management firm to do an in-depth study of Clemson. The study was commissioned in 1955, a year before Edwards came to the college.

The firm recommended three particularly important changes: change from a military college to a civilian institution; change to a co-educational institution; and reorganization of the administrative structure.

The administrative structure was changed in 1955 during the pre-Edwards era. However, it was under Edwards' leadership that the first women's dorm was occupied, in 1963, and it was a year later that Clemson A&M College became Clemson University.

Turning to academics, at least six of Clemson's nine colleges have been established during Edwards' term. They are the College of Architecture, in 1958; the College of Industrial Management and

Textile Science, in 1962; the College of Nursing, in 1968; the College of Liberal Arts, in 1969; the College of Physical and Mathematical Sciences, also in 1969; the College of Forest and Recreation Resources, in 1970.

In other major academic achievements, the first Ph.D. program in agriculture in the state was offered in 1958; the first Ph.D. program in engineering in the state began in 1965.

then, 27,563 degrees have been awarded, including all of the 502 doctorates.

The growth is also reflected in enrollment figures. From 1893 to 1957, about 36,000 students attended the college; since then, more than 49,000 students have attended the institution. That means that about 58 percent of all Clemson students were enrolled while Edwards served as president.



DR. ROBERT C. EDWARDS has been one of the longtime public figures around Clemson University. He has participated in many student activities during his years as president, including an annual dance-a-thon. He was presented this portrait by William Halsey during the 1978 Homecoming activities.



As for non-academic advances, Edwards presided over the peaceful admission of Harvey Gantt as the first black college student in a previously all-white South Carolina institution in 1963. The admission of Gantt, now a Charlotte architect and city council member, was by federal court order.

The growth of Clemson over the Edwards' era can be recorded in the number of degrees awarded. Before 1958, a total of 12,847 degrees had been awarded. Since

The increase in enrollment has been sudden. In 1958, the enrollment was 3,540; in 1966, campus enrollment reached the 5,000 mark; in 1975, on-campus enrollment reached the 10,000 goal set by the Board of Trustees.

The rise in the university budget during the Edwards' era has been equally dramatic. The 1957-58 budget was \$11.2 million; it doubled to \$26.2 million in 1967-

68; by 1972-73, the budget had nearly doubled again to \$47.2 million; even this budget of six years ago doubled again to \$94.8 million in 1978-79.

During Edwards' tenure at Clemson, at least 58 buildings or building additions have been completed, including major academic, athletic and student facilities.

Ten dorms have been added to the campus, including all three high rises. Fike Recreation Center and the Edgar A. Brown Student Union Building, major facilities for student recreation, have also been added. Redfern Medical Center is also a recent improvement.

Academically, major buildings to serve engineering, sciences, math, liberal arts, and other curricula have been constructed during Edwards' 20 years as president. Especially notable is the Robert Muldrow Cooper library.

Athletic additions include Jervey Athletic Center, Littlejohn Coliseum, more tennis facilities, and major changes to Clemson Memorial Stadium.

During the Edwards era, since 1958, the university has spent more than \$75 million on permanent improvements.

As Edwards became president, he also received an honorary doctorate from the Citadel (1959) and from Wofford College (1960). Thus, he has been customarily been addressed as "Dr. Edwards" by students and others.

These degrees were the beginning of a long line of awards for Edwards. In 1966 he was named Man of the Year in Agriculture by *Progressive Farmer Magazine*; he received the South Carolina Recreation Society's Service Award in 1967; also awards from Cooperative Extension Service and from the Society for Advancement and Management, in 1967; from the Piedmont Tuberculosis and Respiratory Disease Association as Seal Chairman, 1968-69.

In 1971, a local junior high school was named after Edwards, recognizing his contributions to education in South Carolina. Also, he received the Outstanding Civilian Service Award, in 1972, and the Air Force ROTC outstanding service award in 1973.

The list goes on: Edwards was selected as the first honorary member of the Society for Biomaterials in 1975; he was awarded the 20-year Medallion as a Thomas Green Clemson Associate in 1976.

Most recently, during his final year as President, Edwards has received numerous awards. Most significantly, Edwards was presented with a plaque by entertainer Bob Hope; and famous painter William Halsey unveiled an official university portrait of Edwards. The Board of Trustees, in recognition of Edwards, began a fund-raising drive for a \$1 million endowment, the largest in the university's history. Thus far, more than \$750,000 has been raised for the Robert Cooke Edwards Endowment for Excellence in Science and Technology.

Not only has Edwards made contributions to education, but he has also worked with corporations in the South.

Presently or formerly, Edwards has served on the board of directors of Dan River, Duke Power, the Federal Reserve Board of Richmond, Va., Bankers Trust of South Carolina, the South Carolina Heart Association, Association of the United States Army, Textile Research Institute, United Student Aid Funds, Blue Cross-Blue Shield and the Southern Regional Education Board.

A conversation with Robert C. Edwards:

The Tiger interviewed Edwards for more than two hours in his Sikes Hall office. In what he called a "rambling dissertation," the retiring president touched upon a number of subjects: his accomplishments, his successor, and recent honors and awards.

Over 20 years, Edwards has been a leader during a period of transition for the university from a small, military college to a major well-respected university.

"What has been accomplished over the two decades that I have been privileged to be a part of this institution is not a product of what I (solely) have done.

"It's people that get things done. I learned a basic, fundamental observation in 1956—one of the things that needed to be done was to make sure that people—students, faculty, staff, alumni—have as much information as could be made available appropriately, relative to what each individual is responsible for. The communications problem, as I perceived it, seems to me almost first in importance.

"We have to have resources—financial, physical plant, but most importantly human resources. . . Let's be certain we attract the very best qualified people that we can attack.

"These changes are awesome—the growth of the institution in terms of physical plant, the growth of the institution in terms of it moving from what it was in 1956 to nine colleges and a major graduate school today.

"Enrollment on the main campus is 10,000 with a total of 11,400 and we've put a ceiling on it to concentrate on quality instead of playing the numbers game.

"All of this is the product of very careful and deliberate examination of what Clemson's responsibilities are in serving the state. . .

"As I look over the past two decades, with the benefit of 20-20 hindsight: If I had it to do over again, I would still do it exactly the same way. Nothing has happened to cause me to feel otherwise. . .

"I have done my best. I've finished the course. I've kept the faith. I just believe that."

Admissions standards have been raised time and time again as Clemson's quality of education has improved.

"I think it is clear that Clemson has elected to concentrate on quality, has elected to not only stick to its basic mission as set forth by Thomas Green Clemson, but also (to emphasize) programs that deal more directly with real-world problems of students and citizens of the state, in my judgment, more than any other institution in the state.

"Yesterday (April 11) was Honors and Awards day. . . I remember vividly when Joe Bailey became the first graduate to get a perfect all-A mark. We had yesterday 5 or 6 graduating seniors with a 4.0. Of the Poole scholars, nine have a 4.0 GPR. . .

"Twenty years ago, by and large, Clemson admitted students when they graduated from high school. Students on this campus today have been admitted on a much more selective basis.

"(But) we still have some students who could do considerably better than they do. . .

"The attrition rate on this campus is well below what it used to be. The level of academic achievement is well above what it used to be. But the real proof in the pudding is our graduates, and they do very, very well."



The Tiger conducted a 'farewell' interview with changes in Clemson University's history. Stories by S

Edwards will be succeeded by President-elect William Atchley, presently Dean of the College of Engineering at West Virginia University. He begins his new job July 1.

"I want you to know I don't have a crystal ball. But I can say to you what I have said to my successor.

"President-elect Atchley was here last week, as you know. And this was the first opportunity that I have had to sit down and really visit with him, and discuss with him what Clemson is all about. He'll be coming back Sunday the 22nd, and I'll have an opportunity to spend more time with him.

"I'm seeking as part of the transition process—and it's working very well, incidentally—to provide him with the type of background information of the type we're here discussing.

"For example, he was going to be visiting with Luther Anderson, dean of Agricultural Sciences. . . So we sat here and talked about programs in Agricultural

Sciences. . . So, when he went to talk to Dean Anderson, he had a real feel about what things were all about.

"I'm convinced, and have said to him: without having had anything in the world to do with choosing my successor, I don't know of anybody that I think is better qualified and better equipped to provide the kind of leadership Clemson's going to be requiring in the years ahead than the gentleman that has been chosen by the board to succeed me. And I mean this as sincerely as I know how to state it.

"I don't expect my successor to do anything the way I did it, or the way I might do it if I were going to continue.

"I've told the board and I've told President-elect Atchley that I'll be living here. I'm not going to meddle in his business. I'm not going to be looking over his shoulder. I'm not going to be second-guessing.

"But I will be available to share with him any information I have that would be of whatever assistance."

A workaholic, Edwards will keep very busy after his July 1 retirement.

"The first thing we've got to do is get moved. We hope to get moved about the middle of May. . . There will be a period of getting adjusted, of settling in, and there's a lot of work I want to do at this time.

"I am going to do just plain physical manual labor. That will give me an opportunity to unwind and hopefully get to be a civilized individual again.

"From the point of view of a third career, I haven't made any plans. There's no rush to do so. I certainly want to do whatever I can of some value and some service.

"I'm not going to sit around and twiddle my thumbs and sit in a rocking chair and rock all day."

Even in retirement, Edwards' interest and commitment to the university will be first.

'I've done my best. . .I've kept the faith'



the man who has presided over the greatest
Steve Matthews. Photography by John Hatfield.

"I didn't build a house adjoining the campus without expecting to enjoy the benefits of living in this area. I can't envision a situation that would develop that would cause me to have less interest in or less commitment to this institution than I now have.

"I've spent more of my life here than anywhere else on earth—27 out of 65 years. I want to spend the rest of my days here. . .

"I won't even spend a night in Columbia if I can get home. I'd rather have three hours of sleep in my bed at home than a whole night in any bed I know of in Capital City."

Edwards has been recognized in his final year as president by Bob Hope during Homecoming, by the presentation of an official university portrait, and by a \$1 million endowment fund in his name.

"There's no way I could begin to put in words what these experiences mean. You can't measure them in material things.

"I don't know anything more thrilling than to know, in perpetuity, there will be students educated—and other services made available—from this institution as a result of income coming from the endowment.

"This is the first truly major fund-raising effort, I guess, in the history of Clemson. We've got to get more support from the private sector if the job's going to get done, because the funds from the public sector aren't going to be available in sufficient quantities. . .

"I don't know whether I can survive to June 30 or not if it keeps on, if you want to know the truth about it. I don't mean that in the literal sense. You just—you know what I'm trying to say."

Louise Edwards, known affectionately as "Moonpie", has been at Edwards' side since their marriage in the 1930's.

"There's no way I can describe her contribution. All I can say is that anybody that's been capable of living and tolerating

me for 44 years has to have a good strong constitution.

"She's a remarkable person, as understanding as anybody can be. I don't know what I would have done along the way if I wasn't fortunate enough to have her.

"We've had a very simple understanding: The house is hers; the office is mine. That doesn't mean we don't talk back and forth about the house and this office, but she doesn't get involved in telling me what to do. . .

"I know for a fact that we're building a house, a lot more house than we've got any business building. But that was what she wants. When I learned what she wanted, that was the answer, as far as I'm concerned."

President Edwards has never been one to be short with words. Over 22 years, he has been quoted on a variety of topics. These quotes are selected from the files of the Department of Public Relations.

On the purpose of a university:

"A university may be a monument to its past...but the past must be served only in memory, not in performance. We believe that the investment of education is in the living, the young, the yet unborn. Though we are proud of Clemson University's accomplishments of the past, the true measure of our worth will be decided by our contributions to the future." (1968)

On students:

"I, of all people, was most guilty of having taken our educational system for granted..." (1968)

"What we need in our colleges, you see, is more students—not necessarily more or fewer people, but more students. The only way to be a student is to study, but studying isn't especially popular. Scholarship is incompatible with some popular expectations today, in and out of college." (1961)

On integration of Clemson in 1962

"It will be an everlasting tribute to all who were involved in these matters at the time that the issues were met with dignity and good sense and that the decision of the federal court was accepted by the students, the faculty, the administration and the alumni of Clemson and by the people of South Carolina in a way which reflected great credit upon them."

On social responsibility:

"The educated man and woman has a special responsibility to contribute to the society of which he is a member. To whom much is given much is also expected. Those with the greatest talents must make the greatest contributions." (1977)

On government and the people:

"Someone has observed that one of the most tragic moments in recent American history was that moment when the phrase 'We the people' became 'They the government.' The growing belief in this country that the government is something over and beyond and different from the people who elect it and support it is one of the sad commentaries on our times.

"If local, state and federal bureaucracies need to be controlled, reshaped, or eliminated, then the people must undertake to do what is needed. If governmental policy appears to be in error, what better method for correcting it is there than the expressed will of the electorate?" (1977)

On government regulations:

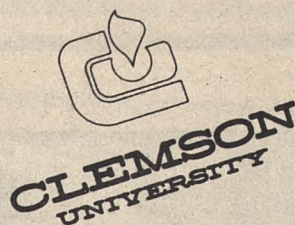
"There can be no doubt the American people desire a clean environment, safe working conditions, pure food, safe automobiles, cheap energy and transportation...The problem, of course, is scarcity. And a free market can best address that problem..."

"During this time of economic recovery it does seem logical to question the constraints which we have imposed on the private sector, to think about the economic cost, to measure that cost, and to strike a balance. Perhaps this would be a time to consider the free market and how it might address some of our pressing problems." (1975)

On becoming president:

"I am deeply humble at this most responsible moment of my life. I can say only that my love for Clemson College and the responsibility of the presidency of Clemson College to the people of South Carolina and to the young people we educate will govern my every action.

"I beseech the entire citizenry of our state, the state officials, the General Assembly and the great alumni body of Clemson College to stand shoulder to shoulder with me as all of us strive to help Clemson meet its great educational, research, and public service responsibility." (1959)



April 16, 1979

PRESIDENT

TO ALL CLEMSON STUDENTS:

Former Tiger editor Steve Matthews has given me one of the most difficult assignments I have had during my 23 years at Clemson: Writing a "farewell" message to the greatest student body anywhere.

First of all, I don't consider this as a farewell, for I can assure you that when I step down from office and become just another one of your fellow alumni, we'll be saying "hello" many times in the future as we participate in and give our strong support to many, many Clemson activities.

As I look back on the past and look forward to the years ahead, it occurs to me that Clemson is many things to many people. It has become a major research institution, a high quality educational institution, and a public agency that provides statewide services that in many respects are unique in American higher education.

But when you get to the heart of what Clemson is all about, it is about you, the students, our greatest national asset and our hope for the future. I don't need to tell you that without you there would be no Clemson University.

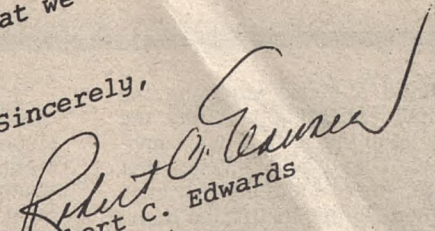
My relationship with you over the years has been perhaps my most rewarding experience as president. Clemson students are unique in their attitude about the office of their president. I have always felt that Clemson students respect the office, but have no fear of it nor are they in great awe of it. That's as it should be. I would sincerely hope that there has never been any doubt in their minds about what I was prepared to do for them, collectively and as individuals, to help them with their problems and their plans.

My feelings about you are probably best expressed when I say that the thing I shall miss most about serving as your president is hearing that wonderful chant, "R C .. R C .. R C!" at Tiger pep rallies. Your many kindnesses and the warm feelings you have created in me and Mrs. Edwards by allowing us to share in your activities are things we shall ever cherish.

While the great spirit and traditions of the Clemson student body will live on, especially with the support of a Board of Trustees truly dedicated to your best interests and under the wise leadership of a great new president, Bill Atchley, some things must come to an end. The time for my departure is at hand. To paraphrase that biblical quotation, I have fought a good fight, I have finished my course, I have kept the faith.

I leave office wishing you the very best as you put the final touches on your formal education and begin your careers and family lives. Together we have worked hard for a better Clemson University. I am proud that we can take pride in saying: "We are Clemson graduates."

Sincerely,


Robert C. Edwards
President

RCE/ew

features

Attention: 'Good ol' country boy' club forming

I have noticed over the past several years that there is a good number of societies and clubs associated with any university, and Clemson is no exception. There seems to be a club for almost every interest from water skiing to sky diving.

But I have seen the need for a new and rather unique club, composed of those people that no other club will have. I am hereby forming the Clemson University Hunting, Fishing, Chewing, Spitting, Frog Stabbing, Coon Hunting, and General Cussedness Club. (CUHFCFSCH AND GCC)

Loose Ends by Charlie Davis

Now, before everyone gets all excited about joining this honorable club, let me explain the rather strict qualifications. Applicants must be Clemson students taking not more than twelve hours, three of which must be wildlife courses, except in the case of those applicants who desire to take first and second year nosebleed control, which will substitute, but not transfer. This will allow the student to have time to participate in such projects as Bear Tracking on Santee Cooper Lakes and Buzzard Roost Evaluation In Underground Streams.

Hunting knowledge is also a requirement. Applicants must know the difference between a deer and a cow and be able to skin out either, for those who just make mistakes sometimes.

Fishing prowess is also required. The difference between a fish and a log must be



known. (As in, "I think I just hooked a lunker log!") Applicants should also know which end of a boat to paddle from, and

when it is kosher to shoot snakes in the boat.

Applicants must be able to chew tobac-

co, or at least chew cardboard. Spitting ability is also a must, with the arch spit being preferred over the drop spit. No gagging or drooling will be permitted. Spitting accuracy is also a big plus when fighting mosquitoes.

Another requirement is that applicants have a certain love for frog gigging. An absence of warts is a must, so as not to contaminate the frogs. Applicants should also be familiar with the difference between the taste of frog legs and the taste of water buffalo. This will be one of the secret CUHFCFSCH AND GCC identification signals.

Coon hunting is also a necessary art with which to be familiar. Applicants should know the difference between a coon and a possum, and should have up-to-date rabies shots. The ability to chase dogs all night and go to class all day is a must. No applicant will be accepted unless he or she knows two good coon hunting stories. Stories about the one that got away will not be accepted.

General cussedness is the final and most important requirement. Applicants should not give a damn about a lot of things, especially politics. A total lack of interest in the price of Chinese tea is helpful but not necessary. Total disgust for population centers over 300, is an absolute necessity, and the fewer cities one can name, the better. A dislike for four-wheel drive vehicles could carry the applicant a long way.

These are most of the rules and requirements of the CUHFCFSCH AND GCC. However, we reserve the right to reject you if we don't like your looks or accent. Applicants should try to contact the president, Barf Whiplash, wherever they can find him. Applicants are due yesterday, and late ones will be refused.

Instructor builds handmade flintlock rifle replicas

By Elaine Bearden
Features Writer

With "a piece of steel, a hunk of wood" Tom Harbin creates custom-built replicas of the black powder rifles that "won the American Revolution."

A machinist instructor at Clemson University by day, Harbin goes home to his own shop by the Chuga River in Oconee County, where he makes, by hand, flintlock rifles—the "Kentucky rifles" of the American frontier.

Unlike the purposes for which those original flintlock rifles were used, Tom builds his rifles for the collector who is interested in the future value of a handmade object. Compared to the plain-style hunting rifles that no pioneer was without, each of Harbin's flintlocks are individual productions of intricately inlaid brass wire, hand-carved maple wood, and precision machined barrels.

The rifles can be used for hunting and competitive shooting matches. Harbin participates in matches whenever he can, and he uses his own .54-calibre flintlock when he hunts. Flintlocks have a legendary reputation for deadly accuracy.

Adapted from clumsy European muzzle loaders for exploring the American wilderness, flint have a 300-yard range due to their long barrels. The longest recorded shot with a flintlock, made by a Confederate sharpshooter, was one and one half miles. Compared to the English muzzleloader's 50 yard range, the flintlocks outshoot the British model every time.

Tom built his first flintlock rifle in 1955

for a high school machine shop project. According to Harbin, his grandfather said it looked "like a sewer pipe on a two by four." Following a tradition that has lasted for five generations in his family, Harbin learned the art of riflemaking from his grandfather who built plain but accurate-firing flintlocks.

Each of the rifles requires about \$250 worth of curly-maple wood and high-grade steel. Harbin spends from 100 to 250 hours sawing, carving, and sanding the wood, chiseling, boring, and rifling the barrel, inlaying the brass, and, finally, putting the pieces together. The final sanding is the hardest task because, as Harbin says, "if you mess up then, it shows."

Because each rifle is tailor-made, it is not like "store-bought" guns built according to average measurements to which most people must adjust. Instead, Tom builds his guns to fit the person who uses them. He believes that, "Every time you bring that gun up to fire, you know exactly what that gun's going to do."

This handmade distinction carries through in the rifle's looks, too. Although the rifles are different from each other in individual design and decoration, Harbin's trademark is his design. His style shows through and marks each rifle as one of his own. In addition, Harbin "signs" his work, but with a different kind of signature. His "Southern Cross" is inlaid in the brass designs, carved in the stock, and chiseled on the barrel. One hundred years from now, in some family's gun collection, a Harbin flintlock will be identified by that trademark.

Harbin charges up to \$750 for his fanciest



Photo by Hatfield

TOM HARBIN, a machinist instructor at Clemson, fashions handmade flintlock rifle replicas. He is carrying on a family tradition which spans four generations.

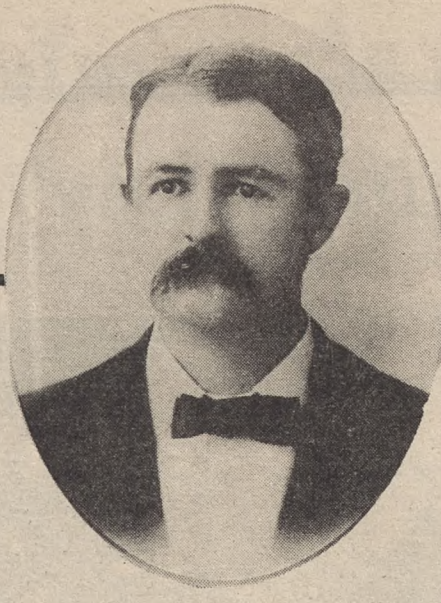
rifle, but he doesn't like to just take orders and build guns for the money. "I only build a rifle when the mood hits me," he says. Most people who desire to own one of Harbin's rifles usually can't afford one, so he offers his guns in a work exchange—a rifle in return for repairs on his car or home.

"Guns are like people," Tom Harbin

says. "No two are alike." So, with wood and steel, time and patience, this pipe-smoking man works carefully in his machine shop on another replica of the early American Kentucky rifle. But more than just wood and steel goes into its making, and the finished product is more than just a handmade rifle.



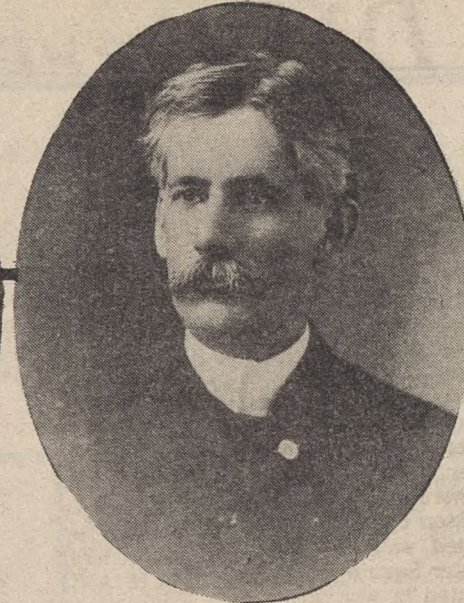
H. A. STRODE



E. B. CRAIGHEAD



H. G. HARTZOG



P. H. MELL

Early Clemson presidents faced difficulties

By Dan Bibb
Features Writer

Imagine you're the president of a small, land grant college in the northwest corner of South Carolina at the turn of the century. Now, suppose a student "steals" a test tube. What would you do?

- A. Pay for the test tube.
- B. Resign your presidency.
- C. Cut off the culprit's hands.

If you answered "B", give yourself five points on your next administrative management exam. Because that's what happened right here at Clemson in 1902.

Here's the explanation. In 1902, Clemson College was a young, fledgling institution still experiencing growing pangs. It had only been admitting students for eight years. Like most organizations, it had its rules and regulations that everyone was expected to follow. And like most new organizations it had its share of critics—the press, legislators, and other universities within the state.

It's at this point that a cadet named Thornwell enters the story. Thornwell was working in the chemistry lab when he decided he needed a test tube. So, he went to the supply table and got one. As he was walking back to his desk, he was confronted by Dr. Brackett who asked Thornwell if he had gotten permission to take the test tube. He hadn't.

Dr. Brackett then reported the incident to the college's disciplinary committee. Thornwell was expelled from school. Sounds simple enough. But it was at this point that the fireworks began.

The state press, often a critic of the college, began rallying to the defense of the young cadet. Then almost the entire sophomore class, approximately 75 in all, walked out of the college in support of Thornwell.

But the trouble didn't stop there. But the freshman and junior classes also threatened to leave if the board of trustees didn't act on the matter. Finally, they were persuaded to stay by the chairman of the board, Col. Simpson. However, both classes did ask that charges be brought against the president of the college, Dr. Henry Hartzog.

Hartzog, who was elected president in 1897, was a graduate of the Citadel and the Theological Seminary. When the hearing on the Thornwell case was held, Hartzog gave notice of his

resignation to the board.

The board put off action on Hartzog's resignation until its June meeting. Meanwhile, Thornwell and the sophomore class were permitted to return to school.

At the June meeting, the board asked Hartzog to withdraw his resignation. He did; however, two months later he finally resigned to accept the presidency of the University of Arkansas.

Dr. Hartzog was not the first president of Clemson, nor was he the first to have his share of difficulties. Both of these honors have to go to Dr. H. A. Strode. Strode, who was born in Fredericksburg, Va., came to Clemson from the University of Mississippi in August, 1890.

When he arrived at Clemson, he didn't bring any new problems with him; they were already here.

Political squabbles concerning the election of the board of trustees made Strode's position, at best, an unenviable one. Seven trustees were elected for life, while six were elected by the legislature. The legislators didn't like being in the minority.

Furthermore, Strode found lots of opposition to the name of the school itself. After all, naming a South Carolina college after—of all things—a Pennsylvania Yankee did deviate from the norm somewhat.

Despite the situation Strode found himself in, he was, nevertheless, responsible for the construction of the first buildings on campus. But even that project had its moments.

Clemson at the time was using convict labor to construct the buildings. However, the convicts, having no civic pride, decided they had rather walk off the job at night rather than build South Carolina's first land grant college. Their frequent escapes caused Strode many worries until a penitentiary rule was finally discovered which forbade the working of prisoners at night.

Finally, on January 31, 1893, before the first students had arrived at Clemson, Strode resigned, claiming poor health.

The college was left without a president with Strode's resignation. The board of trustees then asked the faculty to elect an acting president. It chose Professor Newman, who came to Clemson from Auburn to head the agricultural department and the experiment station.

Then in June of 1894, Dr. Edwin Craighead was elected as president. The relationship between Newman and Craighead was not exactly cordial. Craighead was appointed director of the experiment station. Newman objected, saying that Craighead's experience was in Latin and Greek—not agriculture.

Newman also said that Craighead got the presidency by political electioneering. And as a further insult, Newman said Craighead was "spending most of his time in his office smoking cigars."

Well, as you might have guessed, Newman was brought up on charges. They were building a standpipe instead of a reservoir, not zealous over student labor, and lack of cooperation with the president and board.

Newman resigned on January 31, 1894, one year after Dr. Strode's resignation and seven months after Craighead's election.

In 1895, F. H. McMaster of The State came to Clemson and wrote his impressions of the school. They weren't good. Many editorials followed until, finally, the legislature investigated the school. The legislative report stated "reorganization of the faculty and the discharge of some of the professors and instructors and the election of others should improve things." As if by habit, the legislators also blasted the appointment of lifetime trustees.

To add to Craighead's predicament, a typhoid or malaria epidemic (it's unsure which) broke out on campus with several fatalities. A state board of health committee charged "ignorance and imbecility" at Clemson.

Also, on August 10, 1896, 45 boys were injured when a gangway collapsed. Two hundred cadets were on the gangway trying to get out of the rain when the accident occurred.

Luckily for Craighead, the newspapers weren't critical on this occasion, viewing the accident as an act of God. Craighead resigned in 1897; Newman was then immediately rehired as a professor.

After the turbulent administrations of Drs. Hartzog, Strode, and Craighead, one would think that the sea of controversy surrounding Clemson would calm down. It didn't.

A scandal occurred during the presidency of Dr. P. H. Mell over—believe it or not—the purchase of nine Jersey cows. Seems the three-

man committee that purchased the cows may have paid too much for them, according to one of the committee members.

The press had a field day with that one. Headlines such as "More Trouble At Clemson" and "What's Wrong At Clemson" appeared in the state's newspapers. One candidate for governor even had a Clemson cow plank in his platform.

The same year a farmer's institute was held at Clemson. The farmers weren't impressed with the school. They complained of bed bugs and bad food. Furthermore, they said the professors were living like prices and the students like dogs.

Also, before commencement of 1907, the seniors had a shirt tail parade (whatever that is). Clemson's commandant, Capt. Clay, tried to stop it. He was ignored by the students. Clay then demanded that Dr. Mell withhold their diplomas. He refused. Clay resigned and went to the press. He then fired off a report to the War Department asking it not to send any more officers to Clemson to be installed as he had been. Senator Tillman took care of the War Department, however.

Also under the presidency of Dr. Mell, 305 underclassmen were dismissed by the disciplinary committee for taking part in a fun-filled march on Pendleton. The students, however, were later readmitted.

Mell seemed to be a fair person. For example, when a student returned to Clemson late from Christmas holidays, he brought with him an excuse from a dentist. Capt. Minus, who had replaced Capt. Clay as commandant, refused to accept the excuse. Mell, however, did accept it. Capt. Minus resigned and went to the press. In August 1910, Dr. Mell resigned. He cited interference by the board of trustees, his limited role in the selection of faculty, and the need to reorganize the military department as reasons for this resignation.

There have been other presidents of Clemson since Dr. Mell. Drs. Riggs, Earle, Sikes, Poole, and Edwards all have had to deal with different problems associated with administering a land grant school. However, you've got to admit that the troubles encountered by the first presidents were—well—unique.

Dickey possesses musical and literary talents

By Donna Slavin
Features Writer

James Dickey, one of the most popular and well-known modern American poets, has written, in addition to one novel, some music and a screenplay. A native of Atlanta, Ga., Dickey is currently living in Columbia.

A very busy man, Dickey travels considerably on the lecture circuit, reading his poetry. He also makes trips to New York City, where his agent is, but says he prefers "the south — the climate is a lot better."

Before World War II, Dickey attended Clemson University for one year. He was drafted and served in the 418th Night Fighter Squadron. Dickey began to be interested in writing because "the service was dull. I began to read a lot. I backed in to writing. I could think of more effective ways to say things and I'd always liked words and the sound of them."

Dickey received his Bachelor of Arts and Master's degree from Vanderbilt University after the Korean War. In school, he never took any writing courses. "The only writing courses I ever had were the ones I

taught," says Dickey.

In addition to poetry, Dickey has written some music. "I always liked music," says Dickey, "I wrote the music for the movie 'Deliverance' and for the NBC television special 'The Call of the Wild.'" He is especially proud of the banjo/guitar sequence in "Deliverance."

Deliverance, Dickey's first novel, is based partly on true events because. "Everything I write is based to some degree on actual experience."

Dickey is an avid outdoorsman. Right now he is "too preoccupied with writing to get out in the open" as much as he would like. Currently, Dickey is working on another novel, **Cahill is Blind**, begun several years ago.

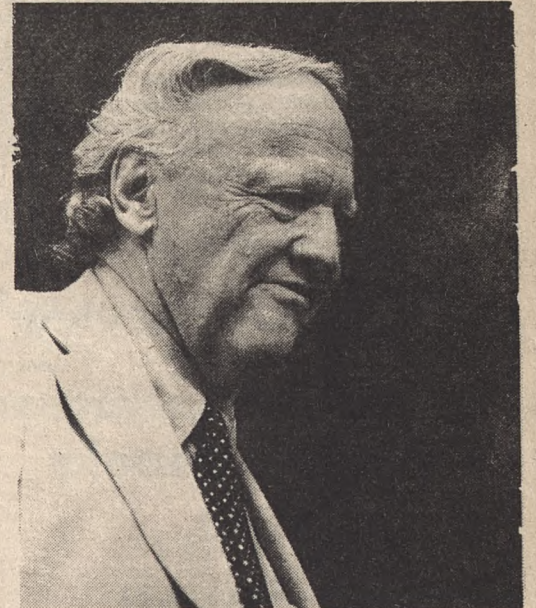
"This book is very different from **Deliverance**," says Dickey. A picture of Dickey sitting with an aluminum life mask is on the cover of the February 1976 **Esquire** in which an excerpt of the book appeared. While sitting for the mask, Dickey's eyes received an alkaline burn. **Esquire** refers to the picture, stating, "The experience, which left him sightless for several hours, contributed to the store of

feeling from which the poet's second novel proceeds."

Dickey's first poems are written in beat lines. His more recent poetry employs a very different style. These poems, in the words of one critic, use "irregular meter and longer lines typographically set to replace conventional punctuation and denote accents." About this change, Dickey says, "Those first poems were written 20 years ago; people change a lot in 20 years."

Dickey says, "I try to write in a vivid, provocative, well-articulated way. Everyone seeks out his own style. It's nice to have a set form like a sonnet or ballad to fall back on. I became less satisfied with that way of writing; and though I still enjoy reading poetry written in traditional style, I don't like to write that way any more."

Critics have said a lot about Dickey's work. "I can't tell about critiques," Dickey stated. "I'm suspicious of all of them." He went on to say, "Don't be guided by criticism; it can make you lose track of what you wanted to do."



JAMES DICKEY

Classes provide students with experience

By Susan Keasler
Features Writer

"Ready with the clock. . . start clock on three. . . stand by in the studio. . . ready to cue. . . cue. . ." and the cameras roll.

Two courses, English 232 (Introduction to Broadcasting) and English 335 (Film), offer students an opportunity to learn camera techniques and problems.

Chuck Montgomery teaches students basic elements of broadcasting in the English 232 classes. They apply these concepts in several projects throughout the semester.

Class members recently completed their first project, a one minute television commercial. "They do all production work except engineering," continued Montgomery. The final project will be a five minute television program.

Group members are responsible for writing their own scripts, lighting, shooting of scenes, acting, and directing their productions.

Course material involves more than producing commercials and programs. "We begin by studying the history of broadcasting," said the professor. He explained that the history included the invention and development of broadcasting equipment and the accomplishments of pioneers and standouts in the field.

Bruce Firestone conducts his English 335 film classes in a similar style. This class, formerly Humanities 303, introduces students to the art of film making and a history of the movie world.

"When I came here (Clemson) four years ago," said Firestone, "there was already a film class." Firestone continued, though, that he began to feel, from talking to students, that they had a great desire to learn not only about films in history, but also the desire to work with the art themselves.

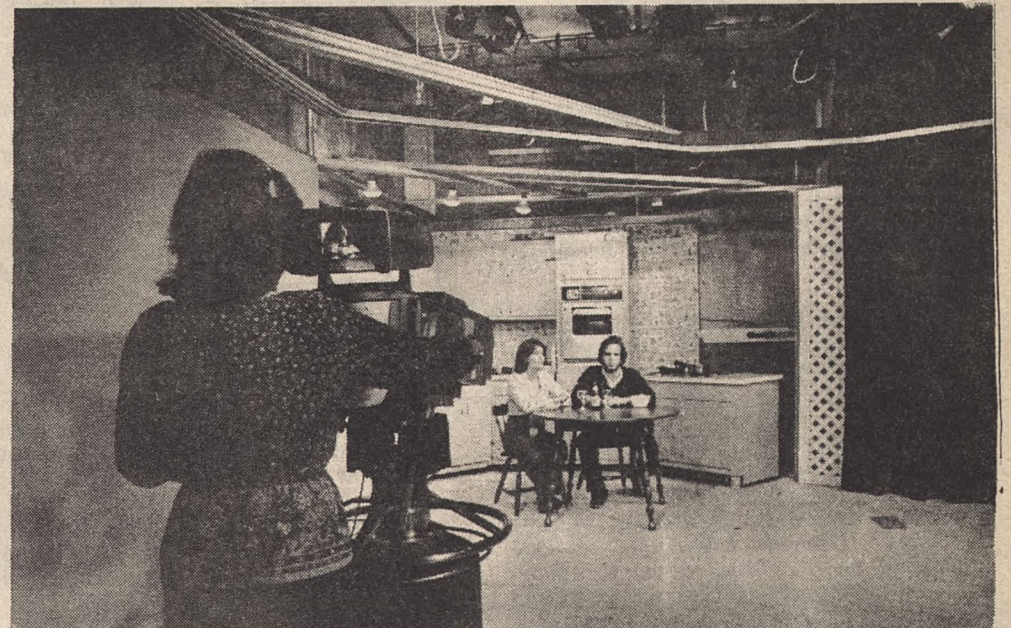
After absorbing the material taught in the first portion of the course, class members are given the option of producing their own short film or writing a term paper. Those interested in making a movie form groups of four to five members.

Firestone explained that students have to learn to think visually to write a script. "They select a piece of music approximately three minutes long," he stated. "Then they created a piece of film to fit the music."

Projects are usually narrative films that tell a short story or lyrical films that contain a few scenes to create a mood.

Students learn to use a 16 millimeter film camera, like those used by professionals, and operate a light meter. Lighting, acting, and editing of "rushes" are the film scene prints that come from the film processors.

Group members select the best of the scenes and cut and splice the film to compose a finished three minute effort which is presented at the Humanities Film Festival, a public showing of all class projects.



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"A Salute To President Robert C. Edwards"

THURSDAY, APRIL 26

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& Chorus**

Pianist Lillian Harder

8:00 P.M. Littlejohn.

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arts / entertainment

'Chronicle' is entertaining, shows improvement

While the *Chronicle* of some years has been a haphazard publication of rather questionable workmanship and worth, this spring's edition is a pleasant exception that is hopefully indicative of the staff's attempts in the future.

'Chronicle' Review

by

Richard Brooks

and

Jim Stovall

Though the magazine is by no means perfect, its good points outweigh the bad ones to give the issue an overall effect of being thoughtfully put together to highlight its strengths.

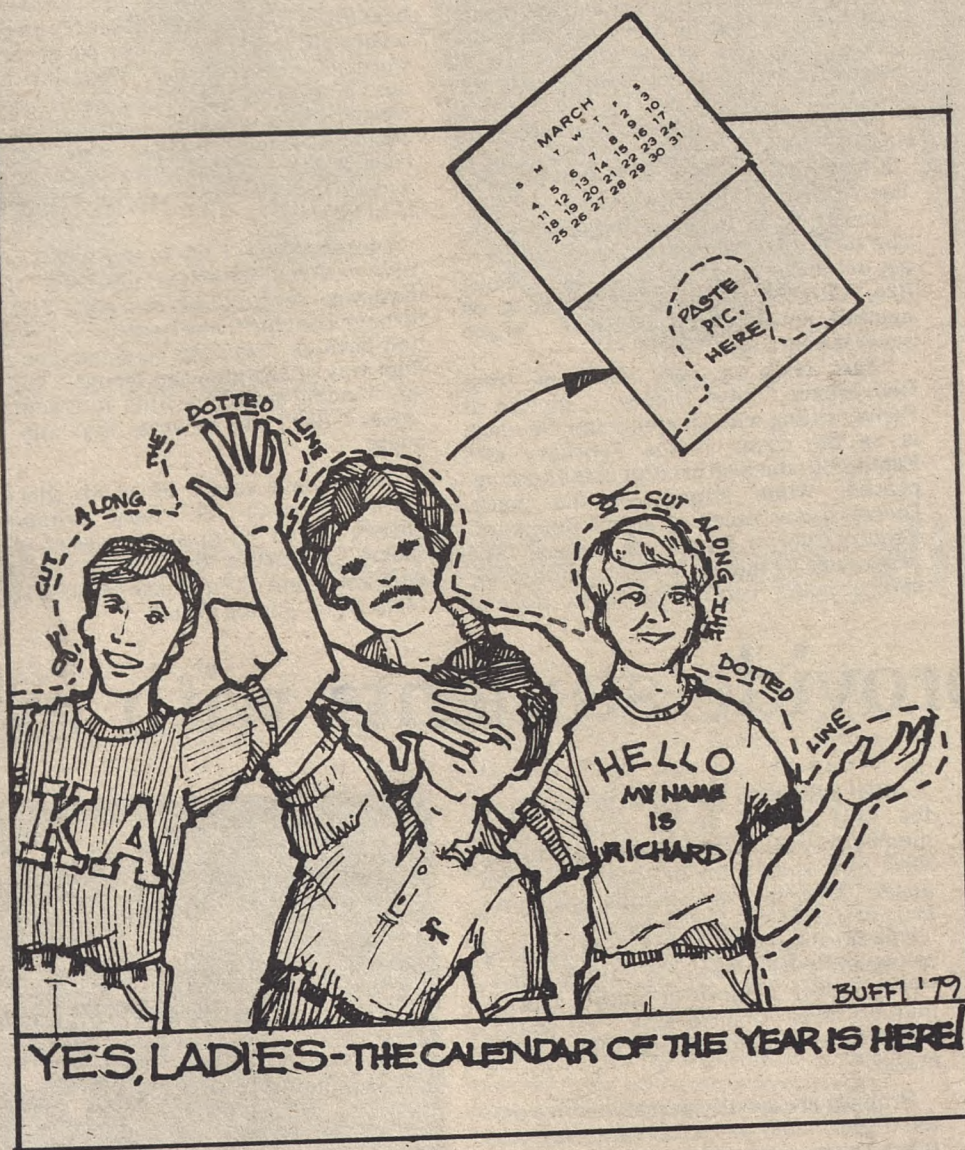
A major change in the magazine's format, and an excellent one at that, is the shift of "F-Stop," the photo section, from its usual place in the back of the book to the opening section.

This position shift presents a well organized group of powerful photographic images. Color is well used, especially in the work of R. E. Hunton. The juxtaposition of a massive industrial silhouette against a group of children with firemen is well balanced.

Sherb Naulty's photograph captures a natural enmity, a cat chasing a parrot, turning a commonplace subject into a study of color and motion.

The four pictures by Bob Brown evoke questions as they probe the relationship of people, seen whole or in parts, in a diverse set of environments. The detail of fabric by "Speed" (Robert Bouknight) is captivating, though a little too real. This photo would have been stronger with less contrast.

P. R. Cook closes F-Stop with two



photographs that expose people in an unreal carnival situation. Cook seems to have captured a mood that questions what is real and what is fantasy.

The *Chronicle's* prose alternates between short stories and non-fiction features, with a page devoted to Bob Carlson's "Shorts."

The best fiction piece in the issue is "I Remember Glenda" by Russell Warren.

Warren possesses a genuine talent for creative writing, as is evidenced in this melancholy, almost depressing story of a beautiful but bittersweet love. He successfully captures the memory of a relationship that is impossible to forget.

"The Concert," by Pete Griffith, is a perceptive sketch of teenage America. The story will remind most readers of a similar experience, but does little more than provide an element to identify with.

Russell Hall's "Fletcher" somehow fails to make the reader sympathize with Fletcher, a man who has been disappointed in one way or another by every woman in his life. Hall does not make the most of the pitiful situation that he puts his main character in.

Both feature articles were written by Angela Elam, an excellent writer and *Chronicle* Literary Editor.

Her story on Edd Presnell, "The Mountain Man," is the best piece in the issue. Her first person narrative of the trip into the North Carolina mountains is appealing to anyone who has ever been to the Smokies.

Appeal to the magazine's readers is missing, however, in Elam's other feature, "The World Three-Day Event." The story is as long as the title would indicate, and involves the world championship of horseback riding, held in Lexington, Ky. this past year.

Elam's talent is as obvious here as in the other feature, but the question of whom the article appeals to remains. Certainly there are not enough equestrian fans at Clemson to justify a story of this length in the *Chronicle*.

Alan Mac Taggart's paintings, "Tokenism" and "Stereotype," are clearly the two most important graphic works in this issue of the *Chronicle*. Mac Taggart's choice of racial inequity is dated, and yet pressingly current. His sense of composition and color produce images that are powerful and difficult to dismiss.

The poetry section is highlighted by a couple of really good poems by Rossi Lamar and Mark Cottle. Cottle's poem is well structured and creates a nice image for the reader while Lamar's comment on one of life's little ironies is astute.

Probably the most talked about and giggled-over portion of the *Chronicle* is the special pullout calendar in the center of the book. Although the calendar's taste may be questionable, it is extremely humorous. And it prevents the magazine from becoming bogged down with undue seriousness. After all, the purpose of the *Chronicle* is to entertain. The spring '79 issue is fairly successful at attaining that goal.

Popular groups stage concert in Greenville

Sunday is not usually thought of as the day for getting down, good time rock'n'roll in South Carolina, but this past weekend was an exception when three fine bands appeared in Greenville Memorial Auditorium. Horslips, Nantucket, and Molly Hatchet presented almost four hours of high quality rock to a predominantly high school audience.

Concert Comments

by

Mark Sublette

Horslips, the opening band, is a five member group from Dublin, Ireland, and while it may be unfamiliar to American

audiences, it is well established in Europe, the members having been together for seven years, with three successful albums to their credit. Horslips is presently touring the United States to promote its third American-released album, *The Man Who Built America*.

Unfortunately, the band's appearance suffered badly from the hideous acoustics of the hall which looks like the sports arena it was designed as. Horslips' music is much too delicate in instrumentation and vocal style for performance in the echo chamber-like Greenville Memorial. Its compositions are light and airy, qualities derived from traditional Irish folk music, a heritage honored on all their albums.

Despite the flaws of the hall, the crowd reacted well toward the relatively unknown band, and Jim Lockhart, the group's head, was surprised by the friendly reaction, but admitted that this was their first performance in the South.

Nantucket was better known to the audience, and its style contrasted sharply with the previous group's. The band depends on strong guitar lines, accompanying a distinctive vocal style, as several members regularly contribute their voices in strength, to the lyrics, as opposed to merely backing up a lead singer.

Nantucket performed a mixture of material off their first album, and from one that is due for release within the month. The crowd recognized those songs that have received heavy FM airplay, and enjoyed the extended version of "Heartbreaker," its best known song. Overall, the band presented a tight performance with a good balance between vocals and music.

The headlining group for the evening was Molly Hatchet, who has just recently found national recognition, after years of perfecting its style in and around Jacksonville, Fl. The influence that the late

Lynyrd Skynyrd, also from Jacksonville, has had on Molly Hatchet is obvious, for during some songs it sounds eerily as if it's Skynyrd still in action. This was especially obvious during "Gator Country," in which the band proclaims its Florida to be the best, just as Skynyrd promoted "Sweet Home, Alabama" and the Allman Brothers claim Georgia.

The band wound up its show with another hard rocker, "Dreams I'll Never See," which was written by Gregg Allman. Molly Hatchet is a southern rock band in every sense of the definition, but with musical twists and turns that set it apart from all those before it. It pays homage to the styles of others without trying to imitate them.

Overall, the audience at Greenville Memorial was treated to a fine cross-section of the rock music from ballads to foot-stompers, an evening that Greenville seldom offers.

Music department presents Edwards salute

A retirement concert entitled "A Salute to President Robert C. Edwards" will be presented on April 26 in Tillman Hall Auditorium at 8:00 p.m. The concert will

Bits & Pieces by Donna Slavin

feature the University Chorus, the University Concert Band and pianist Lillian Harder. Admission is free.

Chamber music recitals

The Department of Music will sponsor the Applied Music student recitals on April 24 at 7:30 p.m. and April 25 at 4:00 p.m. in Daniel Auditorium. Admission is free.

Curator's choice exhibition

Paintings and drawings by William J. Rothfuss, Jr., ceramics and watercolors by Glen Howerton, and photographs by Duane Jackson will comprise this year's Curator's Choice exhibition. The 63 piece exhibition will be on view at the Greenville County Museum of Art Saturday, April 7 through Sunday, April 29.

Wyeth collection arrives

The internationally known Joseph E. Levine collection of works by Andrew Wyeth, purchased recently by Holly and Arthur Magill of Greenville, S.C., have arrived from New York and are now in storage in the Greenville County Museum of Art.

The paintings will go on view to the public within the permanent collection gallery of the Museum of Art in early September.

Anderson community theatre

The Anderson Community Theatre's production of the Rodgers and Hammers-

tain classic, "The King and I" opens tonight at 8:00. Performances will be Friday and Saturday evenings, April 20 and 21, at 8:00 p.m. and the next week, April 20 and 21, at 8:00 p.m. and the next week, April 26, 27 and 28 with Sunday matinees on April 22 and 29 at 2:30 P.M. Tickets are \$5.50 for adults and \$3.00 for students and children.

Blue Ridge arts festival

The Blue Ridge Art Association will sponsor the seventh annual Blue Ridge Invitational art show and sale on the Clemson House grounds Saturday, April 21 from 10 a.m. to 6 p.m. and Sunday, April 22 from 1 p.m. to 6 p.m.

Concert Notes by Richard Brooks

ATLANTA

Agora Ballroom
April 27-The Police-\$5.50

Capri Ballroom

April 21-Asleep at the Wheel, Eazy River-\$5.50
April 25-Chubby Checker-\$4.50

Fox Theatre

April 28-Judy Collins-\$8.50

Omni

April 21-Eric Clapton, Muddy Waters Blues Band-\$9.00, \$8.00
April 25-Rod Stewart-\$12.00, \$11.00, \$10.00

CHARLOTTE

Charlotte Coliseum
April 20-Chubby Checker, The Coasters, The Platters, The Chimes-\$7.50, \$6.50

April 29-Tom Jones-\$12.50, \$10.00
May 3-Grateful Dead-\$8.00, \$7.00

Carowinds Paladium

April 28-B. J. Thomas
May 5-Chic
May 12-Village People
May 26-Pablo Cruise
June 2-A Taste of Honey
June 23-Kenny Rogers
July 2, 3-Waylon Jennings
July 29-Bay City Rollers
August 5-Leif Garrett
August 18, 19-Dolly Parton
August 27-Steve Martin

Ovens Auditorium

April 22-Doc Severinson-\$.00, \$8.00
May 14-Pointer Sisters-\$8.50, \$7.50

Park Center

April 26-Cheap Trick, TKO-\$8.00, \$7.00
May 4-Vicki Sue Robinson -\$10.00, \$8.00, 6.00

COLUMBIA

Carolina Coliseum
April 20-Diana Ross-\$10.25, \$8.25

April 26-Beach Boys-\$9.50, \$8.50
April 27-Tom Jones-\$12.50, \$10.50
May 4-Village People-\$8.50, \$7.50

CLEMSON

Edgar's
April 20, 21-Hard Cider String Band
April 27, 28-Grumpy Dogs

Gutter

April 20, 21-David Archer
April 27, 28-David Ezell

GREENSBORO

Greensboro Coliseum
April 29-Beach Boys-\$9.50, \$8.50
May 4-Charley Pride-\$7.50, \$6.50
May 10-Village People-\$9.00, \$8.00
May 11-Willie Nelson-\$9.00, \$8.00
May 15-Pointer Sisters-\$8.50, \$7.50
May 16-Supertramp-\$8.00, \$7.00
May 18-Tom Jones-\$12.00, \$10.00

GREENVILLE

Greenville Memorial Auditorium
April 26-Tom Jones-\$12.50

April 27-B. J. Thomas-\$8.00, \$7.00
April 29-Cheap Trick-\$7.50, \$6.50

How to get tickets for concerts:

Charlotte Coliseum-No phone in orders. Mail to 2700 E. Independence Blvd., Charlotte, N.C. 28205. Money orders or cashiers checks only. Enclose a stamped, self addressed envelope.

Carolina Coliseum-Phone in orders for VISA or Master Charge at 777-5113. Mail to Box 11515, Columbia, S.C. 29211. Money orders or cashiers checks only.

Omni-Phone in orders for major bank cards at 404-881-1978. Mail to 660 Peachtree Street, NE, Atlanta, Ga. 30308. Checks or money orders only. Checks take longer.

Agora Ballroom, Capri Ballroom, Great Southeast Music Hall, Fox Theatre-Mail to same address as Omni. Also at all S.E.A.T.S. locations.

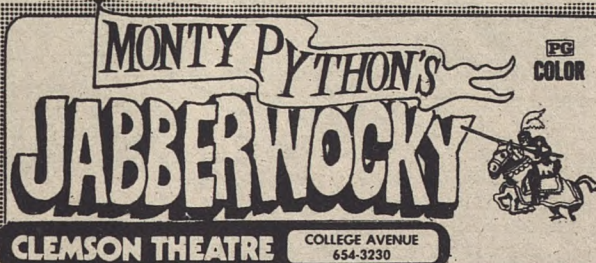
Greensboro Coliseum-Mail to 1921 Lee Street, Greensboro, N.C. 27403. Cashiers checks or money orders only, payable to name of event. Enclose stamped, self addressed envelope and 50¢ per order.

Greenville Memorial Auditorium-Information call 242-6393. Mail to Box 10348, Greenville, S.C. 29603.

Carowinds Paladium-Admission to park is \$7.95. Concert tickets are an additional \$2.00. Available on date of performance.

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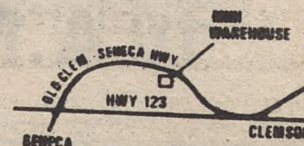


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Spoieto- state's cultural event of the year

By Elizabeth Pettit
Entertainment Writer

Spoieto Festival USA, "the world's most comprehensive arts festival," will present its third annual season in Charleston May 25-June 10.

Spoieto was founded 21 years ago by composer and director Gian Carlo Menotti and has been held annually in Spoieto, Italy. The Charleston and Spoieto seasons combine to realize Menotti's original concept of a "Festival of Two Worlds".

Although the festival will be more modest in scope this year than its two predecessors (due largely to the \$250,000 outstanding debt from Spoieto 1978), it still remains a valuable and entertaining cultural experience. The 17-day Festival will explore music, dance, theater, and art.

Musical attractions at Spoieto include two operas: the American premier of

Domenico Cimarosa's "The Desperate Husband" and "The Medium," a one-act opera by the Festival's founder, Menotti. "The Desperate Husband" is a delightful comedy of love, jealousy and intrigue, set in 18th century Italy.

The Festival is presenting several other types of musical entertainment. Christopher Keene, musical director of Spoieto USA, will conduct a Rachmaninoff concert, with Russian pianist Mark Zeltser as soloist; Charles Waadsworth, founder of the chamber music series, will host several concerts; the Intermezzi, a series of informal afternoon concerts, will be presented in various historic Charleston churches; the Westminster Choir and the Kent State Chorale will perform several concerts; and the special feature will be an all-Gershwin concert at Middleton Place.

Four dance companies, the Ballet Repertory Company, the Alvin Ailey

American Dance Theatre, the Bill Evans Dance Company, and Douglas Norwick and Dancers, will feature all forms of dance, from ballet to jazz to classical. All of the Spoieto dance programs will be held in the Gaillard Municipal Auditorium.

Four dance companies, the Ballet Repertory Company, the Alvin Ailey American Dance Theatre, the Bill Evans Dance Company, and Douglas Norwick and Dancers, will feature all forms of dance, from ballet to jazz to classical. All of the Spoieto dance programs will be held in the Gaillard Municipal Auditorium.

A special theater production, Arthur Miller's "The Price," will be performed in the Dock Street Theatre. The production is currently running as a limited engagement off-Broadway, presented by the Harold Clurman Theatre. "The Price" is considered by many critics to be one of Miller's finest plays.

This year, the Spoieto mini-festivals will don a new name, "Piccolo Spoieto", and will offer a series of admission-free events in the downtown Charleston area each day of the festival. The series is designed to showcase talented young artists and performers from South Carolina and the southeast region. This year's activities will include children's theater, art exhibits, mime, twilight poetry readings, and a Very Special Festival performed by handicapped children.

For the art lovers, "Roberto Rossellini: A Vision of History," a retrospective view of almost all of the legendary director's films, will be presented, as will a series of art exhibits and lectures.

Admission fees range from nothing to \$12.50. Tickets and brochures are available by mail: P.O. Box 704, Charleston, S.C. 29402 (803) 722-2764. The Festival box office will open May 1.

Annual Bengal Ball to feature beer, bands

By Beth Reese
Entertainment Writer

This weekend the University Union and the Central Dance and Concert Committee will present one of Clemson's most popular annual events, the Bengal Ball.

To be held on Saturday, April 21 from 1 p.m.-7 p.m., the event will feature bands and exhibitions, along with the usual beer and fun in the sun. Beer and cokes will be provided, and there will be food sold by concession stands.

The three bands scheduled to perform are Mose Jones, Grinder Switch, and acoustic guitarist John Stanfield. Mose Jones is an Atlanta-based group whose sound is "funk, rhythm and blues—loose but intense music." Its first album to be released is *Blackbird*.

Grinder Switch is another Georgia band whose latest album is entitled *Pullin' Together*. This band's musical style includes "nasty booze, rock & roll, rhythm & blues, a little jazz, and even some pro-

gressive country."

Bengal Ball will also have several exhibitions for all that congregate on the Y-Beach. Water skiing, sky diving, and a lacrosse game—South Carolina vs. Clemson—will be featured. A "Miss Bengal Ball" contest will be held, with the bands serving as the judges.

CD/CC staff members say that the largest container of beer allowed will be a pitcher. Special edition Bengal Ball cups will be furnished with one for every ticket holder. There will be two more beer taps than last year, bringing the total to 16.

Persons entering must have a ticket and proof of age. According to CD/CC staff members, there are very few tickets remaining and a sell-out is expected by Friday.

Swimming will be allowed but there will be only minimum supervision. All person expecting to attend Bengal Ball should attempt to come in "carpools" because of the shortage of parking space.



MOSE JONES, an Atlanta based group specializing in southern blues and rock, will be one of the bands featured at Saturday's Bengal Ball. Its most recent album is "Blackbird."

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New disc nostalgia afflicted

This week's Off the Record column concerns a couple of albums that I feel should be mentioned before the end of the semester. The first album is so terrible that a warning of its existence is in order lest some unwary consumer accidentally spend money for it. The other is by a genuinely talented group that will be appearing at this weekend's Bengal Ball.

Off the Record by Richard Brooks

Rock Billy Boogie (RCA Records AFL1-3294), by Robert Gordon, is an astounding new album. Astounding, that is, in that the record is selling very well and moving up the pop charts despite the fact that it is an extremely painful album to listen to. I figure Gordon must have a large family. What else can the sales be attributed to?

Gordon is apparently attempting to start a nostalgia craze for the "fabulous fifties." His songs are rejects from that era and his vocals are imitative of the singers of the period, especially Elvis (that's Presley, not Costello). The title song is supposedly a tribute to the "rockabilly" movement of the late fifties which fathered today's rock and roll.

I feel, however, that another song from the record, "It's Only Make Believe" by Conway Twitty (you know, of Conway Twitty and the Twitty Birds), would have made a better title cut. At least I could have accepted the album better if it had been somebody's idea of a joke.

Anyway, if you enjoy such golden oldies as "Black Slacks" and "Blue Christmas," or if you are related to Robert Gordon, you might be interested in **Rock Billy Boogie**.

A much more worthwhile record is **Blackbird** (also RCA Records AFL1-2793) by Mose Jones, an Atlanta based southern blues-rock band. The album is entirely original material save the group's version of the Beatles' classic which serves as the title song.

"Blackbird," though, is better than just a rehash of an old Lennon-McCartney tune. Lead vocalist Randy Lewis gives the song a new life with his soulful rendition. At the risk of offending hordes of Beatlemaniacs, I dare say I like the Mose Jones version better than the Beatles'.

While Lewis sings lead vocals on the blues songs, keyboardist Steve McRay contributes the rock vocals to give Mose Jones two entirely different sounds. He is also the group's main songwriter, composing or co-composing all of the songs on the album except the title cut.

A jazzlike track called "In Memory of Ole What's His Name" is the best portion of the album in my opinion. It brings every aspect of the band's music together in an instrumental medley co-written by Lewis, McRay, and the other two members of the group, drummer Chris Seymour and guitarist Marvin Taylor.

Mose Jones' **Blackbird** is an excellent album in the best southern rock tradition that could be ahit if enough people hear about it. Clemson should get a taste of Mose Jones Saturday at Bengal Ball, and if the group is as good live as it is in the recording studio, it could be quite a concert.



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Basement of Bradley

Note:

Refrigerators must be cleaned and defrosted
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campus bulletin

ANNOUNCEMENTS

If you failed to pick up your books or money from the APO Book Exchange this semester, you can do so from April 30 till May 8 between the hours of 10 a.m.-4 p.m., in room 165, next to the Student Government officers.

The Microbiology Club spring picnic is scheduled for Sunday, April 22 at 1 p.m. at the Y-Beach. Please leave one dollar deposit at the Microbiology office if you plan to attend. This money will help cover costs and help determine the number to expect. Hamburgers, hotdogs, and beer will be served. Activities will include softball and/or volleyball. Be there or Call 8777 or 8784 for details.

Attention Senior B.S. Nursing students: If you have a uniform to sell, I have a list of 38 sophomores who would love to buy them. Call Patti at 654-1541 to make your sale.

Med-Tech majors: Why not get involved now in your club's plans for next semester? There will be a meeting of all Med-Tech majors Monday, April 23 at 7:30 p.m. in the basement of Byrnes Hall to elect officers and plan activities for next fall. Come by and see what your club can do for you.

The Pre-Vet Club spring banquet will be held at the Landing in Anderson at 7:30 p.m. on April 26. The cost for club members is \$3.75 and \$7.50 for nonmembers. Reservations must be made by April 23 by calling 6926, 6217 or 6369.

The Y.M.C.A. will conduct a drawing for priority use of the "Y" Barn on weekend dates on Thursday, April 26, at 8 p.m. at Holtendorff Y.M.C.A. Center. Any campus organization may participate.

The deadline for upperclassmen to sign up for fall Rush is April 30. The fee is five dollars. Sign up in Mell Hall, room 201. Call 2153 for further information. Don't miss your chance.

A representative of the Medical University of South Carolina will be in the Placement Center on Monday, April 23, from 1 p.m. - 4:30 p.m. to talk with those persons interested in Physical Therapy and Occupational Therapy.

CLASSIFIEDS

The Clemson Recreation Department is accepting applications for various positions including Program Director, Softball Coordinator, Playground Directors and more. Deadline is April 27. Applications are available at Clemson Park, or call 654-2606 for further information.

SCHOOL'S OUT SOON!! Start your summer at The King George Motel in North Myrtle Beach, Clemson. After-school Special: Rooms \$15.00. Call 803-249-2721 for reservations.

For Rent: One bedroom basement apartment with private entrance. Quiet neighborhood. Within walking distance to campus. Utilities including \$140 rent. Available in May. Call 654-4031 nights.

For Rent: Apartment for summer sessions. Easy walking distance to campus. Carpeted, air-conditioned and fully furnished. Call 654-6960.

Overseas Jobs - Summer year round. Europe, S. America, Australia, Asia, etc. All fields, \$500 - \$1,200 monthly. Expenses paid. Sightseeing. Free information. Write to IJC, Box 52-58, Corona Del Mar, CA 92625.

Roommate needed for both summer sessions. Pay half the rent and utilities. Located one block from campus. For information call 654-4647.

Interested in winning a blender and helping a needy child? Buy a raffle ticket from us. We are the Hedgehogs from F-1 Johnstone. Call 7009 and help this worthy cause.

End of semester blues got you down? **HOTLINE** is always listening! 8 p.m. - 7 a.m. throughout exam week. Also, information and referrals. Dial 654-1040 for a little help from your friends.

Summer sublet: May through August 17. Two bedrooms. This old Lake House is located two miles from campus. \$200.00 per month. Call 654-3689 after 5:30 p.m. weekdays, anytime on weekends.

Commuter wanted: I live in Clemson and will be working in Greenville this summer. Would like to find a rider to share the cost of traveling. Call Ed at 654-1831.

For Sale: Delta Delta Delta Sorority Jukebox. Closed bids start at \$200 and will be received from Friday, April 20 until Thursday, April 26. For more information call 8375 or 8373.

For Sale: Admiral Quadraphonic/Stereo sound system. Compact cabinet with four separate speakers, Gerrard turntable, AM/FM multiplex receiver, and 8-track tape. Has 4 separate amps. Excellent condition. Call 882-9454.

For sale: 1970 Buick Wildcat Convertible, red with white top. Sharp looking car. Loaded with new radials, mags, air conditioning, 69,000 miles. Asking \$1,900 or trade towards an air conditioned import. Call Walt at 654-1479.

Wanted to Buy: 3.5 cubic foot (or less) refrigerator for dorm room. Call 882-9454.

Typing: will type term papers very cheaply. Call 8347 or 8185.

School's out soon! Start your summer at the King George Motel in North Myrtle Beach. Clemson after-school special: rooms \$15. Call 803-249-2721 for reservations.

For Sale: Schwinn Varsity 10-speed bike. Like new!! Asking \$100. Call Ruby at 654-6629.

LOST: A Cameo and an Emerald ring. If found, call 8898 to claim a reward.

LOST: A gold wrist bracelet between Burns and Johnstone last Tuesday. If found, please call 6880.

LOST: Gold LCD men's wristwatch during the snowdays. Call Julien at 8591. Reward is offered.

LOST: Light brown jacket with dark brown and white stripes on the pocket and hood. It was lost the week before Spring Break. I found, please call Sue at 654-6341.

Wanted: Gay roommates to share rent for apartment or house for summer or fall terms. Write care of Sean Chris, Box 603, Clemson, S.C., 29631.

LOST: Kirkland deluxe handlebar pack in front of the University Union Tuesday afternoon. Reward offered. Call Mary Romeo at 654-4441.

Will the person who borrowed a set of prescription sunglasses from Lakewood Terrace #, Friday, April 6, please return my eyes or call 654-6525.

I found a calculator in Brackett Hall. If it belongs to you, call 3250 during the day to identify it. Ask for Jerry Lambert.

Lost: Neutered two year old male cat. Dark tiger coloring with a big fluffy tail. Answers to "Woodrow." Disappeared a week ago near Folger Street. Any information, call 654-4599 days or 654-4031 nights.

Lost: Silver initialed eight ounce flask with initials P.A.D. Lost at East Bank Beach Building Thursday night, April 5. If found, please call Pete at 8431. It has great sentimental value.

Underground Books? There are 14,000 books underground in the Book Cellar! Used paperback half original cover price, new best sellers or 10% off. The Book Cellar, 101 Earle St., downtown. 654-3603. 10-6 p.m. Monday to Saturday.

For Sale: A real bargain on this 1972 Cadillac. Extra clean. Looks, runs and drives great! It has everything-AM/FM Stereo, Climate Control air-conditioning six-way seats, good Radials, etc. Uses regular gas. This car has been well kept and is not junk. Priced for quick sale. Owner may trade for smaller car. Call 7189.

For Sale: 1970 Buick Wildcat convertible. Red with white top, sharp looking car. Loaded with new Radials, mags, air-conditioning, etc. Has 69,000 miles. Asking \$1900 or trade for an import with air-conditioning. Call Walt at 654-1479.

Want to buy: One 1976-77 TAPS (the white one). Call Mike at 654-1471.

PERSONALS

Dear Dr. Option, If you can't find the starter button on your stethoscope, give us a call. You know our number - 314. Respectfully yours, L., L., and V.

Dear Preparation H user, Like I said, your eyes will never set upon that last Personal. By the way, the man from Columbia will never tell you what was in the last one. I mean, HEY MAN, I thought I deserved a better one, but NOOOOOO. You thought you had to know what was in the last one. Well you can forget it because you will never know. With all that behind, thanks for all the good times we had. See you tonight. Hemorrhoid.

TO: Wild and Crazy Clemson students: Three Radford Rowdies want to know how rowdie you really are. Send responses of what your parties are like to L.K. Box 6822, or B.S. Box 5022, Radford College Station, Radford, VA 24142

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HIGH SIERRA BACKPACKING TRIP — This trip is fine even for the relatively inexperienced. The total mileage is about 66 miles in 8 days in altitudes ranging from five thousand to twelve thousand feet. The variety in terrain is tremendous — from deep river canyons to alpine meadows, from deep forests of giant sugar pine and sequoia to rocky granite basins. All equipment is provided plus food and transportation from San Francisco International and back. We also take side trips into Yosemite and Sequoia National Parks. Cost from SFI \$200.00.

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May 19 — BACKPACKING/ NATURAL HISTORY
May 26 — CLIMBING
May 26 — CAVING
June 2 — KAYAKING
June 9 — CLIMBING
June 16 — CAVING
June 17-27 — HIGH SIERRA CLINIC
June 23 — BACKPACKING
June 30 — WHITEWATER CANOEING
July 9-22 — RAINIER-NORTH CASCADES CLINIC
July 14 — CAVING
July 21 — KAYAKING
July 28 — WHITEWATER CANOEING

Apr. 21 — CAVING
Apr. 28 — WHITEWATER CANOEING
Apr. 28 — CLIMBING
May 5 — KAYAKING
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sports

Tigers have very little chance of winning the Cup

To use an old cliché, "it is going down to the wire." The it involved is the race for Atlantic Coast Conference athletic supremacy otherwise known as the Carmichael Cup.

Annually, the Cup has rotated from the University of North Carolina to the University of Maryland because they were the only two member schools that had enough teams to clinch the Cup without winning a lot of championships. North Carolina State

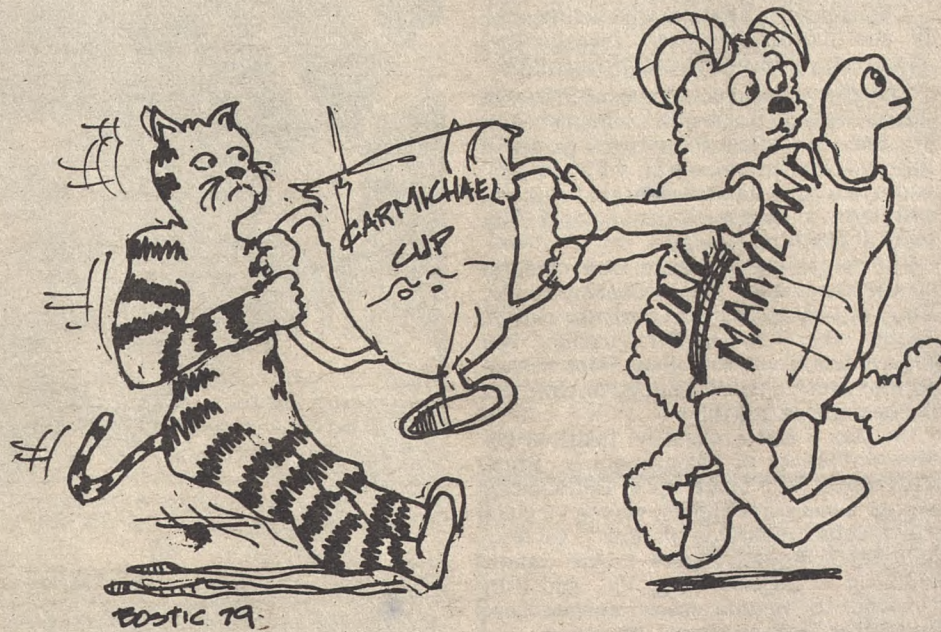
Trailing the Tiger

Cobb Offord

also has the total number of sports allowed and the Pack has been close many times but they always managed to fall short. Duke and Virginia simply are not strong enough in some athletic areas to be considered in the race. Wake Forest does not have enough teams so the Deacons annually finish last in the Cup standings.

The final school, Clemson, has an outside chance at the Carmichael this athletic year, but one sport is going to cost the Tigers the elusive prize — lacrosse. Not that Clemson has a bad lacrosse team, it is just that they don't field a varsity team. Five of the ACC schools have lacrosse squads; therefore, they qualify in the Cup race.

North Carolina had the cup lead by two and a half points over the Tigers at the end of the winter sports. The sports left to be added to the standings are baseball, tennis, track, golf and lacrosse. Clemson will



have to finish first or second in both baseball and track while UNC will have to put on miserable showings to blow its lead. The extra sport will give UNC the title.

Last weekend, the men's tennis team finished a disappointing second to the NC State Wolfpack in the ACC tournament held at the University of Virginia. Seven points will go to the Pack, six to the Tigers and so forth for the rest of the finishing teams. UNC finished fifth and picked up three Cup points. Advantage, Clemson by one-half point.

In baseball, the Tigers have dominated the ACC standings. This weekend, Bill Wilhelm's nine could lock up the title since there will be no ACC baseball tournament this spring. The Tar Heels presently stand fourth in baseball, and if they complete the season in that spot, they will gain four Cup points. Add three more points to the Tiger lead — Clemson by three and one half.

When the tracksters hit the oval this Friday and Saturday in Chapel Hill, they will

likely even things up. Sam Colson's crew had had one of its best outdoor seasons and optimism is, of course, high in the Tiger camp because of the high finishes it has had this spring. The Tiger indoor track squad finished a surprising fourth and any improvement on that finish outdoors would help the Cup cause at Clemson this weekend. Maryland will win the title and UNC is the likely choice for second or third. The Cup lead will depend on this weekend.

"We are going into the meet twenty points down," Colson commented, "because both of our javelin people are out with injuries."

"If we have a good meet, we could finish second," the Clemson coach said. "Our goal is to finish ahead of North Carolina because of the Carmichael thing."

The Clemson golfers also have to try and finish ahead of the Tar Heels. Coach Bobby Robinson's squad will definitely have its hands full since the Tar Heel golfers are

nationally ranked.

UNC cannot finish any better than third in lacrosse; that is five points conceded. Therefore, if the Tigers finish ahead of the Heels in remaining head-to-head competition, then most likely the Cup will have a Tiger Paw stamped on it.

Ever since the fall sports were concluded and Clemson was three-for-three in championships, the offices in Jervy Athletic Center have been filled with talk of "the Cup."

There is a possibility that the Cup will be dropped as a conference function when the member schools convene for a meeting in mid May. If the Cup is motivated out by the conference, general feeling is that some changes will be made in the format.

For example, the three track sports, cross country indoor and outdoor could be combined for one set of points. Another possible change is that only sports each school participates in will be counted towards the Cup.

The Carmichael Cup is mainly for the fans and supporters of each member. Everybody likes to be or would like to be called number one in his own backyard and up to now only two schools have been able to make that claim, UNC and Maryland. Now, other ACC athletic programs are catching up, namely NC State and Clemson. There has also been talk, due to Title IX, that women's athletics in the ACC might be included in the Cup or the women would get a separate superiority award. This would be a tremendous change for the Cup and the ACC by making every sport count.

Even if the Carmichael is discontinued, some paper or communications outlet in the area will pick up on the idea since the fan interest is present for a number one award.

This is the best shot Clemson has ever had at the Cup and within the next couple of weeks the results will be in. It could be North Carolina again because they have the numbers or it could be Clemson because of quality.

The Tigers are hoping their cup will run-neth over for the title.

Hill leads Lady netters at number one spot

In September of 1976, Susan Hill visited Clemson and liked what she saw. She was impressed with the campus, the academics, and, most importantly, the tennis program. Susan knew where she wanted to attend college.

Lady Tiger Coach Mary King knew who she wanted to play tennis on her squad.

Tiger Close-Up

by Chuck Barton

King offered Susan a scholarship, and, of course, Susan accepted it. Since then, women's tennis at Clemson has never been the same. Unlike most freshmen who don't live up to their expectations, Hill rose to the top of the pack and was the major force behind the Lady Tigers' state and regional championships and number 13 national ranking.

Susan began playing tennis when she was 12 years old. Unlike most great tennis players who receive years of professional lessons, she was taught by her father, an engineer. Susan was named as a high school All-American during her teenage days at Signal Mountain, Tennessee and many colleges and universities tried to recruit her for their tennis programs. Among the schools that desired her skill on the tennis court were North Carolina State University, University of Tennessee-Chattanooga, and Clemson. After visiting the Tiger campus, Susan decided in October of her high school senior year that Clemson was the school for her.

"Clemson was just right — not too large and not too small," commented the sophomore financial management major. "I wanted to get away from my home and Clemson is about four hours away. Also, the tennis program at Clemson is great. But there were a lot of other reasons why I chose Clemson."

Since she entered Clemson, Susan has been nothing short of spectacular. In her freshman year, Susan won the Atlantic Coast Conference flight one singles championship — the first time a freshman had won that prestigious honor. But the awards for Susan did not end there.

The Tennessee native had a regular season record of 19-3 during her freshman year. All three of her losses came on a spring trip to Florida, the home of the best collegiate tennis in the nation.

Susan also won the Southeastern Intercollegiate Invitational Tennis Tournament singles title during her fantastic first year. She followed that title with a first place finish at the Association of Intercollegiate Athletics for Women state tournament. She won six straight matches at the regional tournament to add that title to her long list of accomplishments for her freshman year.

Hill then entered play at the national A.I.A.W. tournament where her play earned her another award. She was named as a college All-American, quite an accomplishment for a freshman.

Susan feels that her forehand shot is the strongest part of her game. "I love to hit my forehand because I know I can hit winning shots with it," she stated. "I get my steadiest play from my forehand. The weakest part of my game would be my net game. I would rather stay at the baseline and hit than go to the net."

Although she had a tremendous freshman season, 1979 may be even better for Susan. With the state tournament star-

ting today, Susan is almost a sure bet to capture the singles title again. She has already won the ACC tournament and the Southeastern Intercollegiate Invitational tournament this year. Hill has a season record of 17-2 overall and is undefeated in the conference. In fact, she has never lost a match to an ACC opponent.

Susan feels she has improved her game since her freshman year. "I'm mixing up my shots and my game more this year. I'm also a lot stronger physically and hitting the ball a lot harder," commented the number one singles player for the Lady Tigers.

In addition to being the number one ranked women's singles player in the south, Susan is also one of the top doubles players in the region. Susan and her sister Carolyn team together to make the tenth best doubles team in the south.

"I don't know if I'll turn pro or not," commented the Lady Tiger star. "A lot depends on how much I improve over the next two years. I will probably try the pro circuit for one or two years and see how I like it."

Her goals for her college career are realistic. She wants to win her flight in the regionals and go on to be named an All-American again.

Tigers sweep USC, split with the state of Georgia

By Mike Marzec
Sports Writer

The Clemson University baseball team swept a two game series with the Gamecocks of South Carolina over the weekend, by scores of 1-0 and 6-3. The wins gave the Tigers a three to one advantage for the season against USC.

On Saturday, lefthander Brian Snyder threw seven and one-third innings of near perfect ball to capitalize on Tim Teufel's RBI single to blank the Gamecocks. Snyder allowed only three men to get on base all day, giving up two base-on-balls in the early going. His bid for a no-hitter was shattered in the top half of the eighth, when, with two outs, a Gamecock batter lashed a single through the infield for USC's only hit of the day.

Clemson jumped on top in its half of the first when Neil Simons walked, and Tony Masone singled to move Simons to second. Teufel then singled to score Simons, which proved to be enough for the win. For the rest of the afternoon, the offense for both teams was rather ineffective.

Sunday afternoon was more exciting, with USC lumping out to an early lead. The Tigers came right back on a three run homer by Teufel. USC tied the game back up, but a few more Clemson hits, including a double by Teufel, put the game in the

books as another win for Clemson, their eighth in a row and 22nd out of the last 24 games.

The Tigers dropped their sixth game of the year Monday in Athens, Ga., faltering in the bottom of the ninth, losing a close one to Georgia 15-14.

Clemson once again exploded offensively and jumped all over Georgia Tech Wednesday afternoon by the count of 20-2.

The Tiger record now stands at 32-6, with the conference mark still unblemished at 8-0. The team's last three home games of the year are this weekend, with a 2 p.m. game Saturday against Georgia Southern, and then a double-header against that team at 1:30 p.m. Sunday.

The remaining 13 games afterward, all on the road, start out in Charlottesville, Va. for two games on April 25 and 26 against the Cavaliers of Virginia. The Tigers then travel to College Park to take on Maryland April 27 and 28, to close out the conference schedule.

On May 5 and 6, Clemson takes on the Mountaineers of Appalachian State University, then heads up to Blacksburg, Va. for a one game contest versus Virginia Polytechnical Institute on May 7. On May 8, 9, and 10, the Tigers tackle James Madison in Harrisonburg, Va., and then close out the regular season against East Tennessee State on May 11, 12, and 13.



Photo by Hatfield
CLEMSON LEFTHANDER BRIAN SNYDER flashes a smile after finishing his performance against USC last Saturday. Clemson won the game, 1-0.

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To show our appreciation to our many Clemson student friends who have contributed to another successful year for us, we are having a

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Women's tennis team has bid to regionals

By Chuck Barton
Sports Writer

Riding a four game winning streak, Clemson's women's tennis team entered the South Carolina Association of Inter-collegiate Athletics for Women (AIAW) tennis tournament today in Columbia. The Lady Tigers will face South Carolina for the large college state championship.

Clemson completed the regular season with a 6-3 victory over North Carolina State this past Sunday. The win lifted the Lady Tiger's record to 8-8 overall and 3-0 in the conference.

In the win over N.C. State, Susan Hill remained undefeated in conference play as

she downed Susan Sadri 6-3, 6-0. Sadri is the sister of former Wolfpack All-American John Sadri. Susan Rimes also picked up a win for Clemson. She beat Ginger Lancaster 6-2, 2-0 (default) at the number two singles position.

Other singles victories for the Lady Tigers were Libby Cooper over Kristen Getz 6-3, 6-4; Vicki Eynon over Rebecca Barnette 6-2, 1-6, 6-4, and Sally Robbins over Suzanne Nirsell 6-2, 4-6, 6-3. The doubles team of Eynon and Kaki Abell got the Lady Tigers' other point as they beat Wendy Corey and Carol Knapp 6-2, 6-1.

Before the match began, Eynon, the lone senior on the team, was honored. The team

presented her with pictures and other momentos of the season. Eynon has a four year record of 48-29 at Clemson.

"We came on strong toward the end of the year," commented Lady Tiger coach Mary King. "We're undefeated in the ACC and have a good shot at making the nationals. We automatically qualify for the regionals since we host them."

Hill and Rimes had the two best singles records for dual matches. Hill ended the season with a 11-2 record despite missing the first three matches because of illness. Rimes had a 13-3 record for the season. Most of her losses came while she was playing number one singles because of illness. Rimes had a 13-3 record for the season. Most of her losses came while she was playing number one singles because of Hill's absence. Libby Cooper also had a good year for the Lady Tigers as she posted a 9-6 record at the number three singles position. Eynon finished the season with a 8-8 record while playing number five singles.

In doubles play, the sister combination of Susan and Carolyn Hill ended the regular season with a 7-6 record at the number one doubles position. The number two doubles team of Rimes and Cooper, who are nicknamed "Tweedle Dee" and "Tweedle Dum", had the best doubles record on the team as it won nine of its 14 matches in dual meets.

When asked about the nickname the two are called, Cooper responded. "We wanted something to get us going on the court and Tweedle Dee and Tweedle Dum was the first thing that came to my mind." Both Rimes and Cooper have tee shirts with their nickname on it to add to their spirit and enthusiasm.

Following the state tournament which will continue through Saturday, the Lady Tigers will begin preparations for the regionals. Clemson will host the Region II tournament on May 9-12. Last year the Lady Tigers won the regional championship and went on to finish thirteenth in the national tournament.

Irish tickets available

Clemson University Students (Freshmen, Sophomores, Juniors and Seniors who will be returning to school for the fall semester 1979) will be provided the opportunity to order tickets to the Notre Dame game at South Bend, Ind. (Nov. 17th) or to the TV showing in Littlejohn Coliseum of the Notre Dame and South Carolina games. Orders will be taken at Tillman Hall from 8:30 am to 4:30 pm on April 23, 24 and 25, 1979. Students may purchase a maximum of two (2) tickets per game per activity card, with a maximum of four (4) activity cards per student. Prices of the tickets are: Notre Dame at South Bend are \$11.00 each; TV showings of Notre Dame and USC in Littlejohn Coliseum are \$9.00 each. Tickets must be paid by check (NO CASH) when ordering tickets.

This action is being taken to afford students priority to purchase tickets early because of the heavy demand for tickets. Seniors who are graduating in May will be mailed a complimentary IPTAY membership and ticket application and must order on the IPTAY ticket application to get priority.

A limited number of tickets for the Notre Dame game at South Bend and the two TV showings will be reserved for sale to incoming Freshmen only in the fall. Regular ticket stubs to the USC game in Columbia will be distributed as per previous years in the fall. All tickets ordered for the Notre Dame game at South Bend will be in a student block area. Actual distribution of tickets for both TV games and for Notre Dame at South Bend will be made in the fall semester.

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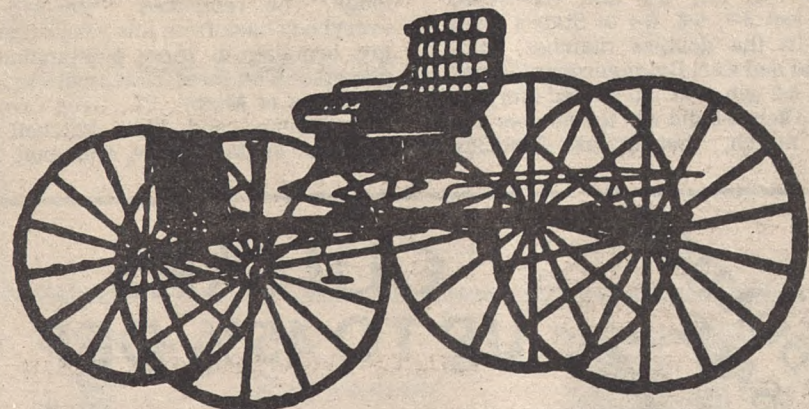
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Pack upsets Clemson

By Steve Carrington
Sports Writer

Coach Chuck Kriese's Tiger tennis team battled head-to-head with the North Carolina State Wolfpack for the coveted Atlantic Coast Conference tennis championship last weekend, and, when the smoke had cleared, the Wolfpack walked away with the team title as it edged the second place Tigers 60-55.

Although all seven of the conference members participated in the annual tournament, it was evident by the end of the first round that the bid for the title was going to be a two horse race as both Clemson and State jumped well out in front of the other schools.

First round action of the tournament saw the defending co-champion Wolfpack advance eight of a possible nine entries into the semi-finals while the Tigers advanced seven. Included in these seven was Mike Gandolfo, who triumphed 6-2, 6-2 over State's Brian Hussey at the number one singles spot.

At the end of the round, State led the Tigers by the slimmest of margins, 42-41. Duke and Virginia were a distant third fourth place.

In the semi-final round of the tournament, five Tiger entries were victorious. Gandolfo won again as he blitzed past Hank Harris of Virginia, 6-2, 6-2. At the number two singles spot, Mark Buechler also won in straight sets as he defeated Allen Farfour of Wake Forest, 6-2, 6-2. At number four singles, Mark Dickson defeated Mike McMahon of Duke, 6-0, 6-4.

In the doubles matches, Clemson's number one team of Gandolfo-Buechler avenged an earlier season loss to McMahon and Ruby Porges of Duke as it won easily, 6-0, 6-2. The number two Tiger team of Dickson and Pender Murphy also advanced to the finals with a 2-6, 7-6, 6-1 win over Tiger Buford and Chris Fenichell of North Carolina.

The second round of the tournament also proved to be a fruitful one for the Wolfpack as six of its entries won. They were the Wolfpack's number two, three, four, and six singles spots and its number one and two doubles. At the end of the day, State had upped its lead to 54-51 over Clemson, and the crucial final round of the tournament would be the Tigers' last chance to overtake the Wolfpack in their quest for the top prize.

Clemson's performance in the final round, however, was a big disappointment as the Wolfpack pulled off some startling upsets in capturing three of four head-to-head clashes with the Tigers.

Top-seeded Buechler fell to State's Andy Andrews 1-6, 6-2, 6-4 and top-seeded Dickson lost 5-7, 6-3, 6-4 to State's Scott Dillion. In the doubles matches, Matt McDonald and Carl Baumgardner teamed for a 6-2, 6-2 win over top seeded Murphy-Dickson. Clemson did win the number one doubles match, though, as Gandolfo-

Buechler triumphed 6-2, 6-4 over Andrews-Dillion. Another bright spot for the Tigers was the superb play of Gandolfo. Trailing 4-1 in the third set, Gandolfo fought off double break point to win five straight games and the number one singles championship as he defeated Porges of Duke, 5-7, 6-4, 6-4.

Other winners in the championship round were McDonald and Dillion of State at the number three and six singles spots and Ross Dubins of Duke at number five singles. Rodney Crowley and Geoff MacDonald of Virginia won the number three doubles championship.

Although the Tigers were unable to overtake the Wolfpack, their strong second place showing was the highest Clemson finish in recent years.

Finishing behind Clemson in the tournament were Duke with 49 points, host Virginia with 48 points, defending co-champion North Carolina with 43, and Maryland and Wake Forest with 30 each.

"I'm very disappointed," said Kriese after the tournament. "We had our chances but just did not do the job. I think we lost our momentum after the UNC match a couple of weeks ago, and we didn't have the fine edge," he continued. "Also, it was hard for us because we were the frontrunner and everyone was shooting for us."

Despite the team's disappointing show in the tournament, Kriese termed the season "the greatest ever in Clemson tennis." It was a season which saw the Tigers defeat some of the nation's best college tennis teams and rise to national prominence. It was a year in which they won the South Carolina state championship for the second year in a row, posted a team record of 25 wins, and gained a bid to the NCAA tournament.

Concerning the NCAA tournament to be played in Athens, Ga., between May 21 and 26, Kriese commented, "We're going to work harder than ever to prepare for it and we're going to it to win. Gandolfo and Buechler can play with anybody in the country and Dick Milford has been playing some of his finest tennis all year. We have the potential to do very, very well."

There will be not only a team tournament in Athens but also an individual's tournament. Gandolfo, who is currently ranked 36th in the country according to the Intercollegiate Tennis Coaches Association (ITCA), will represent Clemson in that category. He and his doubles partner Buechler should also get a bid to the individual tournament. "On paper they are the finest doubles team in the southeast," noted Kriese.

Coach Kriese also views next year with high optimism. "We will be super, super tough," he remarked. "We will have everybody back from this year's team and are bringing in three outstanding new players." The three newcomers are John Desdunes of Miami, Fl., Greg Cooper of Birmingham, and Walt Mitchell from Anderson Junior College, Anderson.

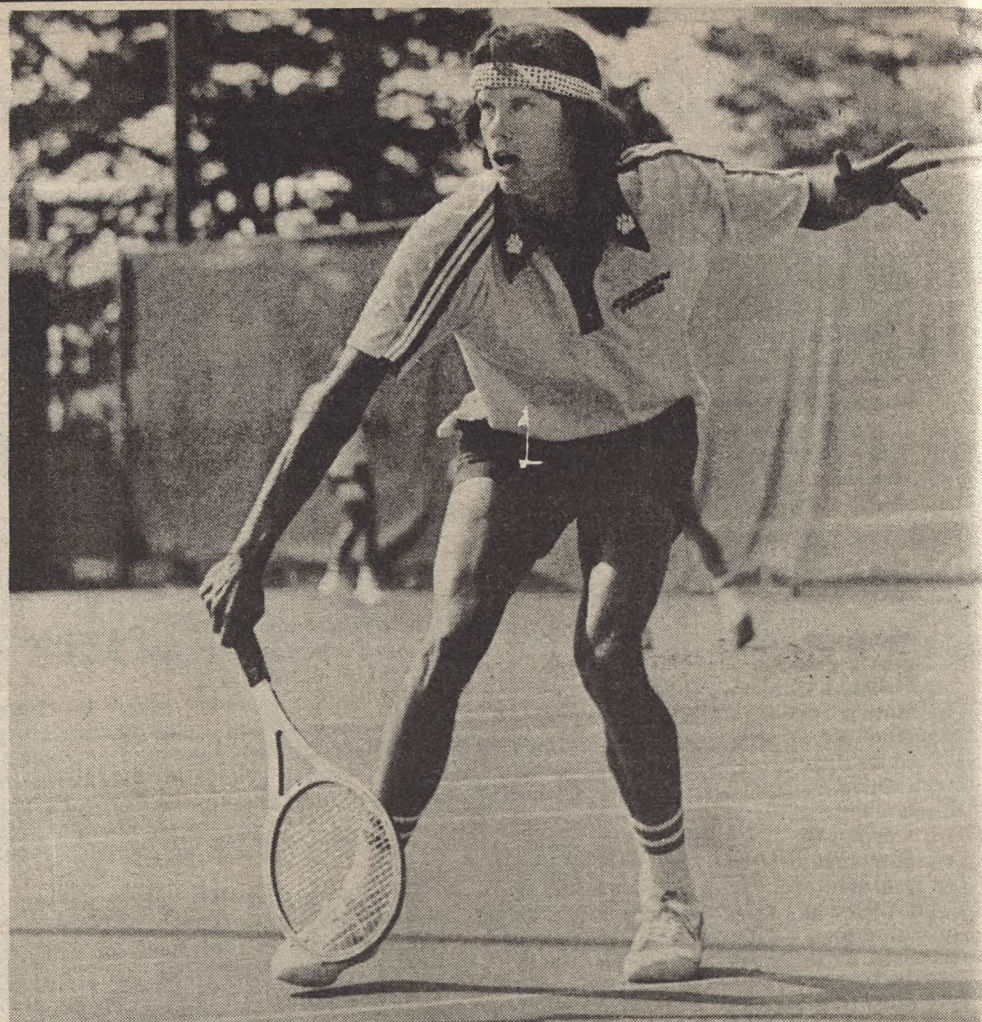


Photo by Hatfield

CLEMSON'S MIKE GANDOLFO returns a shot during a recent men's tennis match. He won the singles title at the ACC tournament last weekend while playing in the number one slot for the Tigers.

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Ruggers win state title with comeback

For the second time in the last three years, the Clemson Rugby Club has captured the state championship.

The Clemson ruggers brought home the three-tiered gold championship cup last Sunday after having edged pretournament favorite University of South Carolina 9-7,

applied by the forwards.

Having edged the Tiger "A" side 9-6 the previous week, Greenville entered the finals so confident of retaining its championship that the team had a tub of champagne cooling on the sidelines.

The Greenville ruggers, who have shown improvement over last year's championship editions, added more ice at halftime while they enjoyed a 1912 advantage. But the second 40 minute half of the game was described by Tiger captain Jimmy Howard as "one of the most one-sided of the season." The Tigers came out fresh and pinned Greenville on its side of the field, shutting it off completely, while Howard split the uprights four times for 12 unanswered points.

The Clemson Rugby Club will host the Olde Gray Rugby Club this Sunday at 2 p.m. on the rugby field behind Jervey. Admission is free.

Vineze, Dave McKnight, and former football wide receiver Jerry Butler.

Coach Colson is going into the meet also expecting good points from his middle distance and distance runners, led by members of last fall's cross country champions Dave Buechler, Wayne Coffman, and Scott Haack.

"With a good meet, we could finish second," Colson stated.

The marathon was won by previous two time winner Bill Rodgers, America's big hope for the 1980 Olympics in Moscow. But according to Colson, Matthews may have a shot at the '80 games.

"He will have to get his time down to around two-ten and that will be difficult to do but right now he certainly is running well. His performance was not bad for only his second marathon," Colson said.

Sports Briefs

Blanked the Citadel 7-0, and defeated last year's champion Greenville Rugby Club, 24-19 in a windblown finale. All eight of the state's rugby clubs participated. Greenville, the Citadel and Hilton Head Rugby Clubs finished out the first four.

Drew Calrton, Kenny Graden, Burt Norton and Jimmy Howard accounted for the scoring, the first three smashing over the goal. Howard kicked conversions and drop goals from all over the field.

Clemson's play was marked by a swarming scrum led by possible all-state selections Frank Archibald, Mike Craven and Jack Miller. Rick Marsher and Lew Riley also contributed to the remarkable Tiger pursuit.

Because all but the final games were defensive contests, the Tiger backs did not rack up impressive offensive credentials. Crisp hitting by Frank Graziano, another all-state nominee, George Conover and Billy Hannah complemented the pressure

Track

Sam Colson's Tiger track squad will head for Chapel Hill, N.C. and the 26th annual Atlantic Coast Conference track and field championships this weekend. Only one thing is certain going into the meet. The University of Maryland will walk away with the title. Everyone else is playing for second including Clemson.

"We have some young people in the field events but I expect to get some points out of this area," the Tiger coach explained, "but our strength is in the 100 and 200 meter dashes." Competing for the Tigers in this area will be the group of Desai Williams, Steve Davis, Ray Daley, Ed

Marathon

Assistant track coach Dean Matthews has added another creditable performance to his marathon scorecard. Matthews placed 12th in the recent Boston Marathon out of a field of over 8000 with a time of 2:14.48.

According to head track coach Sam Colson, "His performance did not surprise me but the time did. Two-fourteen is an excellent time."

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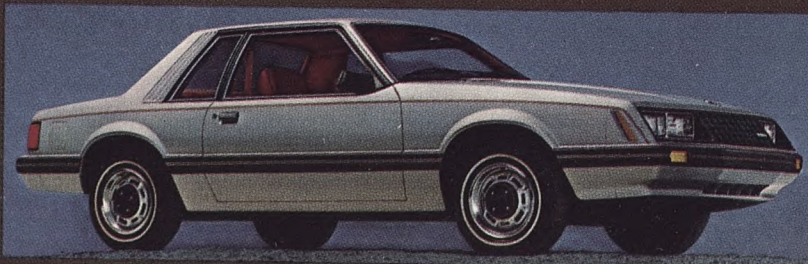
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ANATOMY 5

When Hamlet said, "What a piece of work is man," he wasn't kidding. The human body is a walking wonder of the world. If all 696 muscles of your body could pull in one direction at one time, you could move 25 tons. And that strength is only one of three amazing aspects of your body that you can—and should—develop as part of a shape-up program.

STRETCHING 6

After a winter of limited exercise, most of us have to get in shape before we can take to the courts, pools and jogging paths around campus. Stretching is the perfect way to begin *now*. We've put together a program that isolates eight major sections of the body and stretches them individually. And one super-duper total body stretch that's all-purpose (and thousands of years old).

JOGGING 10

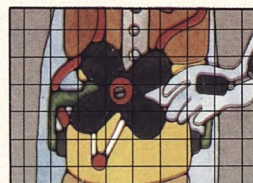
Some people say being on a daily running regimen is like having your own psychiatrist. Find out for yourself. This section gives you tips on setting up a personal jogging program. You'll also get the scoop on running shoes, info on heat exhaustion, a spring-to-winter marathon calendar—and words to the wise from Bill Rodgers, the *real* marathon man.

TENNIS 14

Can you be a winner at tennis with only average physical ability? Yes, says Dick Gould, tennis coach at Stanford University (the 1978 NCAA champs). Also in this section: Rod Laver gives you advice on how to perfect your stroke. A former pro tells you how to develop effective doubles tactics. A Harvard psychiatrist categorizes tennis players by psychological makeup. And John McEnroe admits he's tired.



Superbody/16



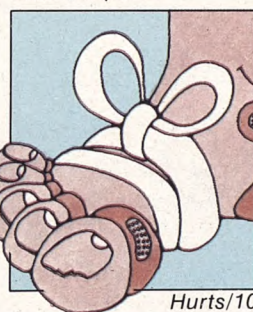
Inner Workings/5



Swim Tune-Up/21



Tennis Tips/14



Hurts/10

WEIGHTS 16

Many top athletes combine weight training with regular workouts to increase stamina and muscle tone. You can, too. We'll tell you how to get started flexing your pecs and limbering your lats (and what that means in English). And lay to rest the myth that women shouldn't lift weights because they'll end up looking like the Hulk. (It's physiologically impossible.)

BIKING 18

Bicycling is a great way to see the countryside and condition your body at the same time. But if you're a beginning rider, how can you avoid soreness? What's the connection between jumping rope and cycling? And who is Otto Wenz and why is he predicting that in five years bicycle racing will be as popular as jogging?

SWIMMING 21

Boston University swim coach Raegh Wetmore (that's his name, honest) shares his five-step plan to get you into shape through swimming. We give you tips like how to avoid shoulder tendinitis (a common swim-related injury), what's the proper swimmer's kick, how to improve your crawl stroke, what it feels like to be a competitive swimmer—and how to flatten your stomach for swimwear.

BODY/MIND 23

Some physicians are prescribing racquetball—not Elavil—for mildly depressed patients. Why? Aerobic exercises are believed to stimulate the production of body chemicals that have the same effect as antidepressant drugs. It's all part of a holistic approach to fitness. Its theme? Your mind affects the performance of your body, and your body has an effect on your mind. Sounds simple, but the ramifications could be mind-boggling.

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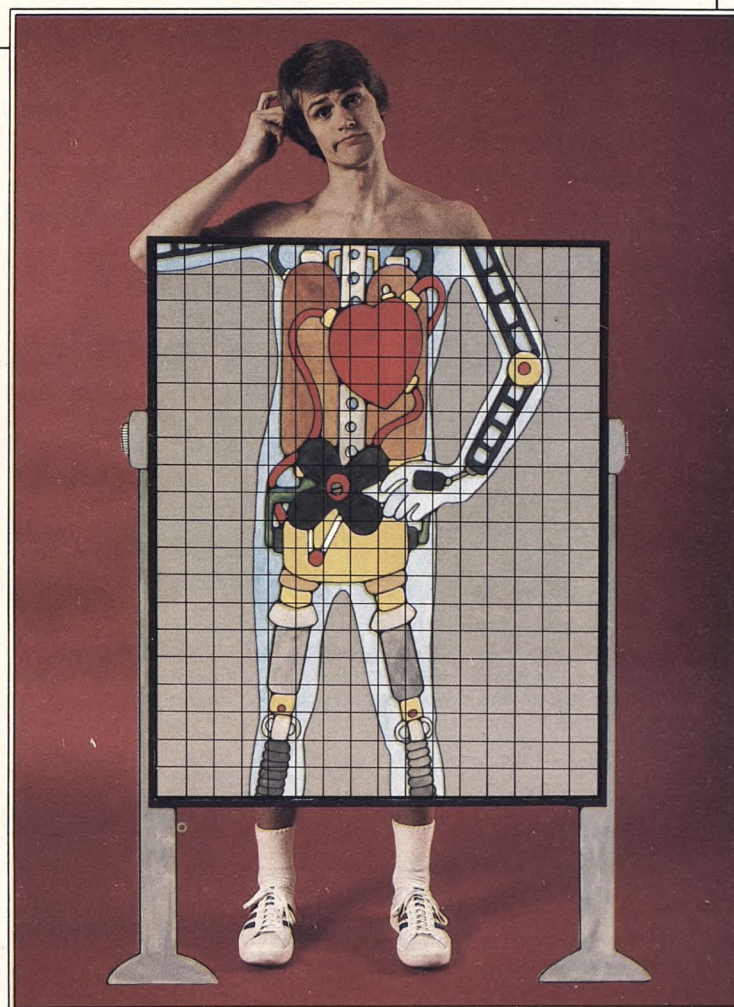
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YOU NEED FLEXIBLE MUSCLES. Any physical activity, from the blink of an eyelid to the lifting of a piano, depends on the muscular system, which makes up 45 percent of your total body weight. You've got 696 muscles supporting the 206 bones of your skeletal system, which are also surrounded and interlaced by another system of tendons and ligaments. These connective tissues bind, link and anchor organs, muscles, bones and the spaces in between. When a bone, muscle or joint is injured, it's usually partly because it didn't receive enough support from connective tissues that had become short and tight from nonuse. A flexible body generally absorbs more stress with less injury, so the importance of flexibility in a physical fitness program that includes vigorous activity cannot be understated.

YOU SHOULDN'T GIVE UP. When that familiar soreness and stiffness sets in after your first exercise sessions, don't throw in the towel. It's just that because you're out of shape, lactic acid has a tendency to collect in your muscles, making it more difficult for them to contract. When blood circulation increases with additional exercise, this waste product will be flushed out as your muscles begin to work more efficiently.

YOU CAN BE REALLY STRONG. If all the muscles in your body could pull in one direction at the same time, their combined force would come to about 25 tons. The surest and fastest way to develop this muscular potential is to work with weights, which can mean lifting hefty barbells in a gym or simply supplementing calisthenic exercises (chin-ups, half-squats) by using five- or 10-pound weights with the routines. Other exercises add strength in specific muscle groups through repetition (sit-ups for the abdomen, push-ups for the arms).

YOU NEED OXYGEN. The element that your body needs most isn't protein, vitamins, enzymes or minerals. It's oxygen. And the vital center that processes it is that marvelous muscle only about the size of your fist: the heart. Although flexibility and strength contribute to a well-conditioned body, the key is to saturate your 60 billion cells with a nourishing supply of oxygen through the bloodstream. This means the more circulation the better. Each day your heart pumps over 2,000 gallons of blood through your body, up to 12 gallons per minute during heavy exercise.



YOU CAN TRAIN YOUR HEART AND LUNGS. Aerobic exercises such as running, swimming, cycling or handball ("aerobic" means literally "with oxygen") are the foundation exercises on which every fitness program should be built. By using vigorous, perspiration-inducing activity to raise your heartbeat from 78-85 beats per minute to 120-140 per minute, you can train your heart and lungs to work more efficiently, bringing increased amounts of oxygen to the body with less effort.

YOU MUST COOL DOWN. Always follow this advice when getting in shape: Cool down for at least 10 minutes when you've finished exercising. If you've ever felt faint after running hard and then stopping suddenly, it's because the blood that was circulating has sidetracked from the brain and collected in the muscles. So decrease your activity gradually by continuing to walk or swinging your arms and legs to keep the blood circulating. And above all, pay attention to pain. It's nature's way of telling you something is wrong. When it hurts, ease up.

To learn more about your incredible body, look at a copy of **MAN'S BODY: AN OWNER'S MANUAL**, by the Diagram Group (Bantam Books, New York, 1976, \$2.75), or **WOMAN'S BODY: AN OWNER'S MANUAL**, by the Diagram Group (Bantam Books, New York, 1977, \$2.75).

STRETCHING

Before you start a program of warm weather workouts, it's a good idea to stretch out any winter kinks. The stretches shown here are designed to build flexibility in eight major sections of the body. Remember, before you play to get in shape, you have to get in shape to play.



NECK

With spine straight and without moving your shoulders, drop your chin to your chest and *slowly* rotate your head, first clockwise five times and then counterclockwise five times. Don't use jerky movements but try to make as large a circle with your head as you can, feeling the full range of the motion in your neck.

LOWER BACK

Lie on your stomach and bend your legs so that your feet are over your thighs. Firmly grasp your right ankle with your right hand and your left ankle with your left hand. Then slowly raise your head, body and knees by pulling up on your ankles, lifting your head high and arching your back at the same time. Do not strain. Your weight should be resting comfortably on your abdomen. Pause, relax back into the starting position and repeat five times.



HIPS AND WAIST

Stand erect, arms outstretched to each side.

Slowly bend sideways to the left, your right arm stretched over your head as far as possible, palm facing forward.

Hold the position for five counts, then repeat the stretch to your right side, again holding the position. Do at least 10 times to each side, keeping your legs straight. Try to reach a bit farther with each repetition.



ARMS

Stand straight, feet about six inches apart. Extend your arms to each side so that your body forms a T.

Keeping your arms straight, rotate them clockwise 15 times, making large circles in the air.

Lower your hands to your thighs, extend your arms again and rotate them counterclockwise 15 times. To get the full benefit, concentrate on keeping your spine straight.

UPPER LEG

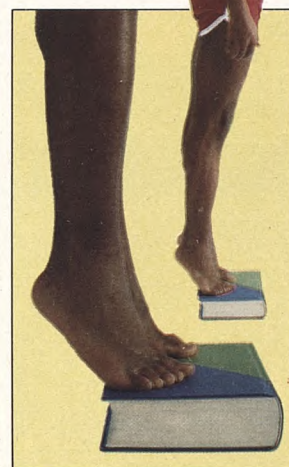
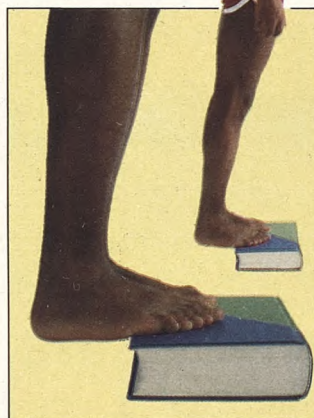
Lie down on your back with arms outstretched to each side, feet together.

Lift your right leg so it's pointing upward. Keeping both legs straight, try to lower your toes to your left hand. Pause, return the leg to its original position and then lower it to the floor. Repeat the movement with left leg to right hand. Do 10 times to each side.

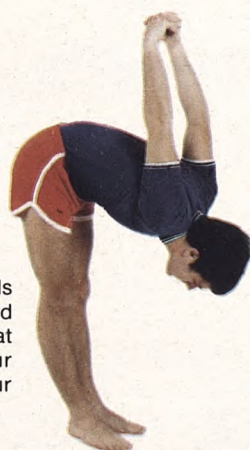


LOWER LEG

Stand erect on the edge of a thick book or a stair, with your heels lower than your toes and the balls of your feet steady on the surface. Pull downward with your heels, and hold for five counts.



Then rise as high on your toes as you can, and hold for five counts. Repeat these two movements 20 times.



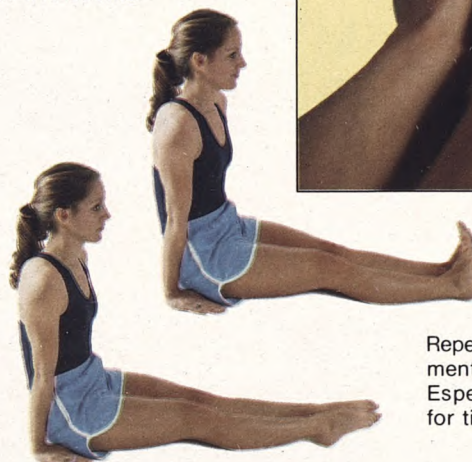
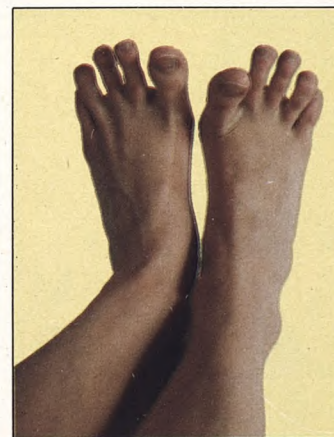
SHOULDERS

Extend your arms in front of you, backs of the hands together. Imitating a swimmer's breaststroke, sweep your arms until they are extended behind your back with palms together and fingers locked.

Keeping your hands clasped, bend forward until your head is at your knees and your hands are above your hips. Repeat five times.

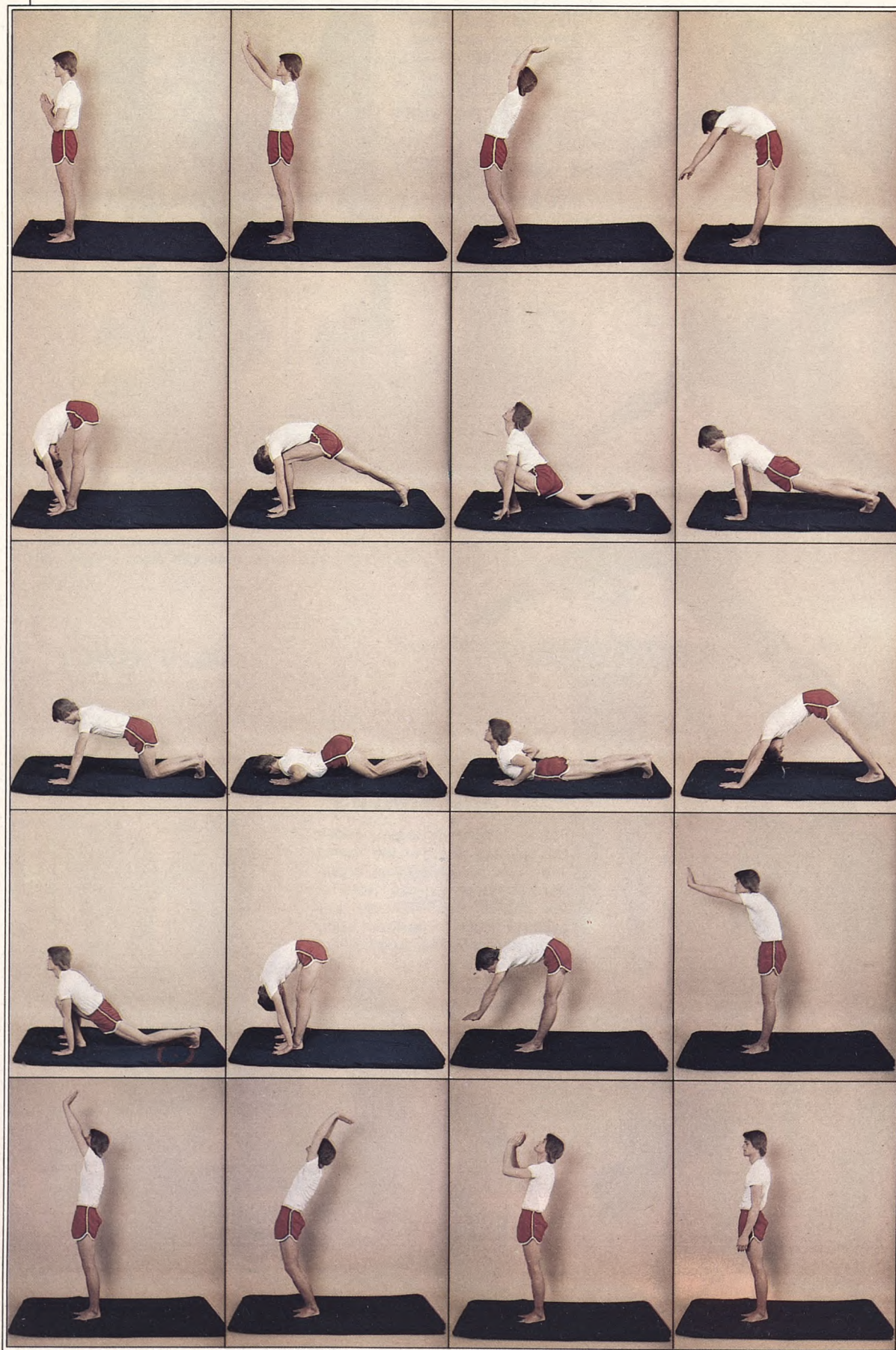
FEET AND ANKLES

Sitting straight with legs extended and palms pressing on the floor at your hips, point your toes downward as far as you can. Hold for five counts, then flex the toes backward, spreading them apart as much as possible, and hold for another five counts.



Repeat both movements 10 times. Especially good for tired feet.

THE TOTAL BODY STRETCH Over 5,000 years old, the Sun Salutation is a hatha-yoga routine whose slow, easy postures will vitalize you each day.



Stand erect, hands in front of your chest. Raising your arms high above your head, bend backward as far as you can. Then, keeping your legs straight, bend forward and reach with your palms toward the floor.

Gently try to bring your forehead to your knees. Then extend your right leg backward with the right knee touching the floor and the head bent back. Stretch both legs out together so that your body forms a straight line supported by your hands and toes.

Drop to your knees, chest and forehead to the floor, keeping your abdomen raised. Then lift your chest from the floor and arch backward. Point your toes forward, press heels flat on the floor and raise your hips, keeping your legs straight.

Bring your right foot forward between your hands, your left knee touching the floor, and hold. Bring your left foot forward and try to touch your forehead to your knees. Slowly straighten up, arms extended.

Bring arms overhead and bend backward as far as you can. Finally, slowly drop your arms to your sides and relax. Complete the entire routine two to eight times. Daily practice will improve your flexibility right away, and your circulation and muscle tone as well.



INTRODUCING THE SPORTY NEW FORD PINTO RALLYE.*

ENTER THE RALLYE YOU'VE BEEN WAITING FOR.

The Rallye...it might just be the adventure you've wanted to experience. With charcoal grille and headlamp doors, "Rallye" bodyside tape, and distinctive front and rear spoilers (all standard), it looks like a million. Packed with value, the Rallye also comes

What Do You Think of Insider?

6

We hope you enjoy this issue of *Insider*. To make the next one better, we'd appreciate your help. Just fill in this card and drop it in the mail. Thanks.

School _____ Year _____ Sex _____

1. How much time have you spent reading *Insider*?

____ 1 hr. ____ 30 min. ____ 15 min. ____ none

2. Do you intend to spend more time reading it?

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3. On a scale of 1 to 10 (10 being excellent, 1 being poor), how would you rate *Insider* overall?

Excellent _____ Poor
10 9 8 7 6 5 4 3 2 1

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____ very useful ____ somewhat useful ____ of little use

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7. What did you like most about *Insider*?

8. What did you like least about *Insider*?

JOGGING

*Think of it as fun
and not something that's
good for you, like spinach or a trip to the dentist.*



FOCUS ON SPORTS

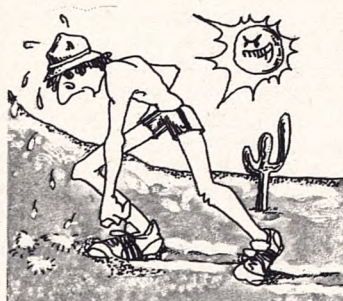
Born To Run

Running is an exercise that helps your entire body feel better. Regular running will strengthen your heart and increase your lung capacity, thus improving cardiovascular efficiency. Running will also lower your blood pressure, tone your body and help keep off extra pounds by burning calories.

The sport is as individual and noncompetitive as you want to make it, and provides much-

touted mental benefits. No one is sure what causes "runner's high," but a general explanation may be that running creates a harmonious balance between mind and body. A Howard University study reported that students felt less anxiety and more positive feelings about their bodies, after lengthening their running distances. Some people say being on a daily running regimen is like having your own psychiatrist.

Hot weather can wilt the hardest of joggers. When outside temperatures rise, it's harder for the body to perspire and heat gets trapped inside. That can lead to cramps and heat exhaustion. To guard against this, jog in light clothes when it's hot and drink plenty of fluids. Rest occasionally and douse yourself with water; this helps you sweat and cool off.



For Women Runners Only

Women derive the same benefits from running as men do. There's this difference: Since a woman's heart and lungs are smaller than a man's, she doesn't have to run as long or as hard to improve her level of fitness.

Kathryn Lance, author of a book on running for women, took up the sport when her poor physical condition led to high blood pressure. She urges the beginning runner to persevere. "Not every run is wonderful,"

she says. "If it's torture, try it three times a week. Tell yourself how great you'll look and feel after that tough first period."

Lance's book includes a guide to warm-ups and developing a running program. She gives special emphasis to questions concerning muscle development, weight loss, and running while pregnant or during menstruation.

Kathryn Lance, RUNNING FOR HEALTH AND BEAUTY: THE COMPLETE GUIDE FOR WOMEN, Bantam Books, 1977, \$2.25.

Your Own Workout

Once you've decided to take up running, think of your regimen as a training session—not a straining session.

Set yourself an attainable goal. Try running for two months, at least three runs per week. A more rigid six-week program involves running four times the first week for 18 minutes each time. You can then work your way up by stages to half-hour runs. Feel free to mix walking and running at any stage in the program.

A 10-minute warm-up will help cut down the chance of injury. The warm-up should consist of stretching exercises that get your heart, blood and lungs working at more than a resting pace.

When you first start out, you'll experience an overwhelming urge to forget the whole thing and resume eating pizza. But the day will come when your normal workout is a piece of cake—and then you'll want to push even farther.

Marathon Man

The ultimate proving ground for a runner is the marathon—a grueling, 26-mile 385-yard test of bodily strength and will power. Bill Rodgers, who holds the American marathon record with a time of 2:09:55 (set at the Boston Marathon in 1975), has been running in marathons for 27 years.

"I know what's good for me from my own experience," says Rodgers, who has no coach or personal trainer. "When I've trained well and know the competition, I'm usually confident before a race."

Rodgers recommends that beginners buy a good running book or subscribe to a runner's magazine for tips on developing a personal program. "It's also good to join a running club, or just talk to experienced runners. There are too many people going too hard and too fast. You have to be patient and work with your body," he says.

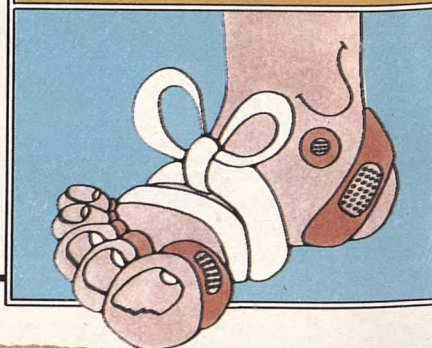


WHAT TO DO

On the road to glowing health and inner peace, the beginning runner will doubtless stumble across a variety of injuries common to the sport. If you pull, strain or sprain something, try a hot bath, liniment, or an ice pack on the injury. As you heal, try running at a slower pace on a softer surface. If the injury worsens, knock off for a few days.

Some common runners' afflictions:

Blisters—Good shoes and petroleum jelly or moleskin on rubbed spots help avoid blisters. To treat, puncture with a sterilized needle, apply a disinfectant cream or ointment and cover for a few days.

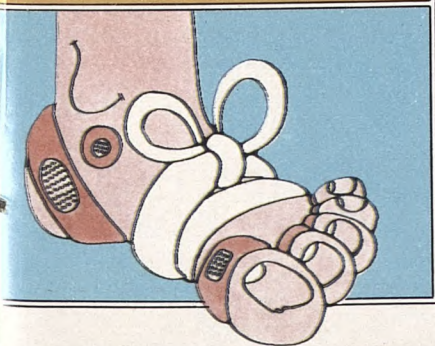




WHEN IT HURTS

Runner's toe—This occurs when a toenail is bruised, turns every hue of purple, and eventually falls off. Trimmed toenails and decent running shoes are the best means of prevention.

Shin splints—Running too high on your toes or wearing stiff shoes on a hard running surface causes this painful injury. The shin muscles pull at the surrounding shinbone membranes, which results in tearing or separation of the membranes. Doing stretches designed to limber up the back of the leg can help you avoid shin splints, as can running on a soft surface and wearing flexible shoes.



In the Beginning

Modern marathon racing has classical and heroic origins. In 490 B.C., the Greek allies fought the decisive battle of the Persian War against the army of Darius, the Persian emperor. The Athenian-led Greeks won a stunning victory on the Plain of Marathon, and a runner, Pheidippides, was dispatched to Athens with word of the victory. Legend has it that Pheidippides ran the entire 26 miles without a stop, delivered his good news, and dropped dead.

In 1896, the first of the modern Olympic Games were held in Greece. As host nation, the Greeks chose to revive the marathon. The British tagged an additional 385 yards onto the distance of the race during the 1908 Olympics, held in England. (The proper Britons wished the race to commence at Windsor Castle, and the extra yards have become part of the official distance.)

Today, many cities around the world hold annual marathon races which attract runners of every nationality. Among the most noteworthy are the Boston and Fukuoka, Japan marathons.

A Day at the Races

Marathons, mini-marathons and races of all distances are held in every state, all year long. A sampling:

BOSTON MARATHON

Boston, Mass. April 16

MILE HIGH MARATHON

Denver, Colo. May 6

MADISON MARATHON

Madison, Wis. June 30

MAYOR DALEY

MARATHON

Chicago, Ill. Sept. 23

LOS ANGELES

HARBOR MARATHON

Los Angeles, Calif. ... Sept. 30

PROVIDENT MARATHON

Philadelphia, Pa. Oct. 14

NEW YORK CITY

MARATHON

New York, N.Y. Oct. 21

WHITE ROCK MARATHON

Dallas, Tex. Dec. 1

MARYLAND MARATHON

Baltimore, Md. Dec. 2

For a more complete listing, plus information on entry requirements and other details, consult *THE RUNNER'S GUIDE TO THE U.S.A.*, by Martina D'Alton, Summit Books, 1978, \$6.95.



The Complete Book of Running, by James F. Fixx, topped the bestseller list for 22 weeks last year. Fixx writes informally and personally about the physical and psychological aspects of running. He cites studies and medical opinions to back up his claims concerning the benefits of running, and includes guidelines for setting up a personal running program. James F. Fixx, *THE COMPLETE BOOK OF RUNNING*, Random House, 1977, \$10.

TUNE-UP

Save yourself the torture of massaged muscles by loosening up before you take to the jogging trails. You shouldn't expect your body to function at peak efficiency without some advance notice. Stretching your legs before you run can help prevent injuries that could inhibit you from further exercising. These two easy exercises will warm up your legs to avoid muscle strain:

(At top) With your hands on the floor, bend one leg as shown. Attempt to press down with the heel of the extended leg. Do this five or six times with each leg.

To stretch the backs of your legs, try the three-step exercise shown at right. Sit on the ground with your legs bent as shown, knees to your chest and hands grasping the sides of your feet. Then "walk" your feet out as shown, continuing to hold onto them. When you've straightened your legs, pause and hold the position for a few seconds. Repeat five times.



FOR THE RECORD—In 1929 a transcontinental footrace was run from New York to Los Angeles. The winner, Finnish-born Johnny Salo, finished the 3,665-mile course in 79 days, an average of 46.5 miles per day. His time was 525 hours, 57 minutes and 20 seconds, and he won the race by 2 minutes and 42 seconds.

What's a Shoe To Do?

The main job of a running shoe is to cushion shock, and to keep your foot straight and your heel steady. Your best bet is a general-purpose or training shoe. It should be flexible at the ball of the foot, and the heel should be at least a half-inch higher than the toe.

Running shoes are the only equipment you need, and it's worth it to lay out the money for a good pair. Good running shoes range in price from about \$25 up to \$40 or more. Consult *Consumer Guide*, *Runner's World* and *The Runner* magazines for price lists and comparative ratings.

"The masses have finally discovered what athletes have known all along—exercise makes you feel good."

—JAMES FIXX, author and runner



WIDE WORLD PHOTO

SOUND THE CHARGE!



'79 FORD MUSTANG TURBO.

Here's a whole new breed of Mustang. It's the exciting Turbo-charged Mustang from Ford. Dramatic sports car styling with an excellent combination of responsive performance and fuel economy.*

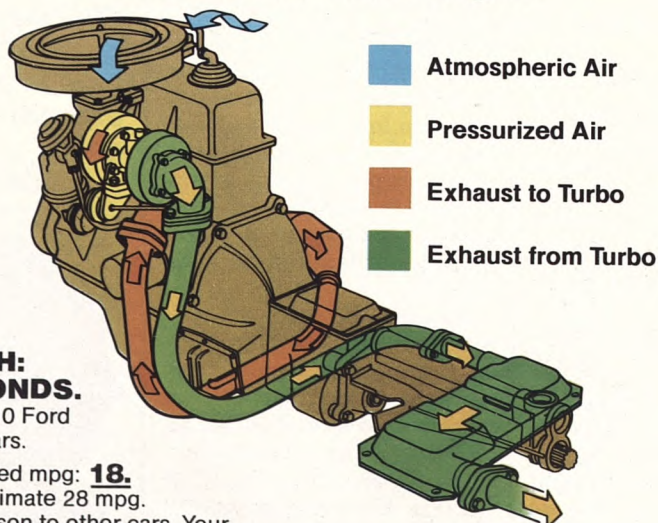
Turbocharger: Mustang's AiResearch TO-3 Turbocharger is actually a turbine compressor driven by wasted exhaust gases. At higher engine speeds, it

compresses more fuel/air mixture into the cylinders, enhancing combustion for increased power output. Additional power that's only there when you call for it. That means you get 4-cylinder economy combined with performance comparable to larger V-8 engines.

Michelin TRX Tires: Mustang's optional Michelin TRX 190/65R X 390 ultra-low profile tires are



Optional 2.3 Litre Turbo Engine



***0-50 MPH:
7.1 SECONDS.**

Average of 10 Ford tests on 3 cars.

EPA estimated mpg: **18.**

Highway estimate 28 mpg.

For comparison to other cars. Your

mileage may vary, depending on speed,

weather and trip length. California mpg is lower.

Actual highway mileage will probably be lower than estimate.

mounted on metric 390MM x 150MM forged aluminum alloy wheels. Included is a specially tuned suspension system. This system gives Mustang its highest level of handling, directional stability and steering response.

Aerodynamics: Mustang's dramatic sports car styling with a drag coefficient of .44 on the 3-door and .46 on the 2-door gives it one of the most efficient aerodynamic designs of any car

built in America. A vehicle with a low drag coefficient requires less engine power to propel it to any given speed in low ambient wind conditions.

Full Instrumentation: All Mustangs feature easy to read instrumentation including an engine tachometer, oil pressure, ammeter, engine temperature and fuel gauges with international symbols, a speedometer marked in both miles and kilometers per hour, and a trip odometer.

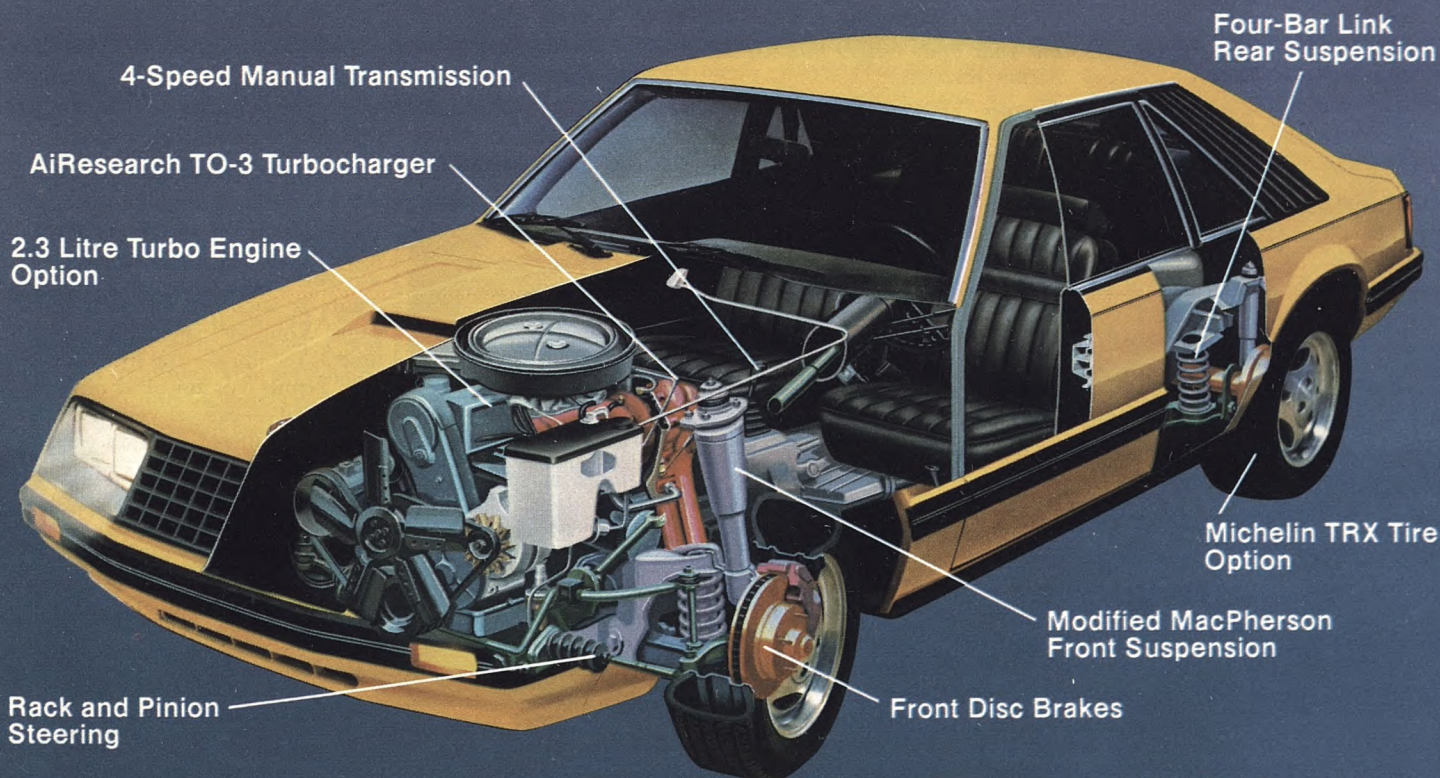


Precise Handling: With sports car features like a modified MacPherson front suspension, four-bar link rear suspension, rack and pinion steering and front stabilizer bar, all Mustangs have precise handling.

For even better handling, there's the optional Handling Suspension and radial ply tires. Included are radial-tuned springs and shock absorbers plus stiffer suspension bushings and a rear stabilizer bar for increased roll control.

To get the ultimate in Mustang handling order the optional Michelin TRX tires, metric forged aluminum alloy wheels and specially tuned suspension. This system provides Mustang with cornering ability comparable to high performance sports cars costing thousands more.

Experience the exciting new Mustang Turbo for yourself. Test-drive one at your local Ford Dealer.



4-Speed Manual Transmission

AiResearch TO-3 Turbocharger

2.3 Litre Turbo Engine Option

Four-Bar Link Rear Suspension

Michelin TRX Tire Option

Modified MacPherson Front Suspension

Front Disc Brakes

Rack and Pinion Steering

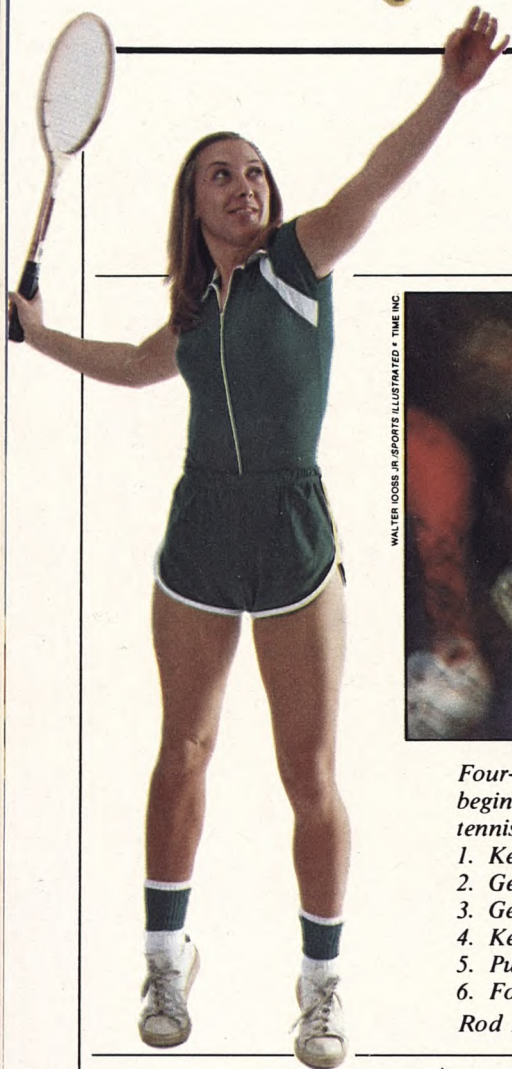


THE NEW
BREED

FORD MUSTANG

FORD DIVISION





WALTER IOOSS JR. SPORTS ILLUSTRATED © TIME INC.

TENNIS

The tennis boom has more than 40 million Americans hitting a ball over a net with a racket.



Four-time Wimbledon champion Rod Laver recommends that beginners follow these six steps to achieve a smooth and accurate tennis stroke:

1. Keep your eyes on the ball.
2. Get your weight forward and keep your feet apart.
3. Get your racket back quickly by pivoting.
4. Keep your wrist locked.
5. Put your body weight into the shot.
6. Follow through.

Rod Laver, TENNIS DIGEST, Follett Publishing, 1975, \$7.95.

In Praise of Wood Rackets

Although the tennis market has been bombarded with rackets made of everything from steel to fiberglass, wood is still considered the best material for a racket that will allow you control and "feel" for your shots.

The ball leaves a wood racket with only the force that the player has applied, and this control is especially helpful to the beginner who has trouble keeping the ball in the court.

Wood rackets range in price from \$20 to \$60. If you buy one, you should also invest in a press to keep the wood from warping in humidity and heat.

Doubles Tactics & Strategies

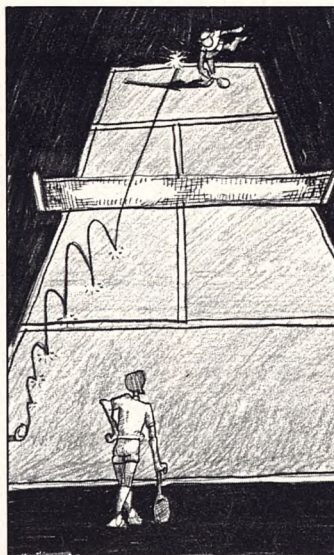
For the weekend player who prefers social tennis over competitive or highly strenuous play, doubles tennis can provide a slower pace and a more relaxed game. Doubles, however, is a team pursuit that requires team strategy and tactics.

"Doubles is not just singles with two players on each side of the net," says Tony Trabert, former tennis pro and author of *Winning Tactics for Weekend Tennis*. According to Trabert, a major problem for novice doubles players is not knowing where to stand or where to return the ball.

When an opponent is serving to your doubles partner, says Trabert, you should stand with your heels on the service line. This puts you deep enough to cover your side of the court if your partner makes a weak return. If he or she makes a good return, you should then move forward into a volley position.

The best place to hit the ball in doubles play, according to Trabert, is up the center of your opponents' court. They will have less angle on their return and may get confused over who takes the ball.

Tony Trabert, *WINNING TACTICS FOR WEEKEND TENNIS*, Holt, Rinehart & Winston, 1972, \$5.95.



When people are practicing or warming up, they often let the ball bounce two or more times before returning it. But allowing extra bounces really defeats the purpose of practice, which is to tune you up for match play. Waiting at the baseline for the ball to arrive not only burns fewer calories, it can also hurt your game by fostering bad habits and making you less responsive.

Tips from Dick Gould, Champion Tennis Coach

If you have the motivation to become a winner in tennis, but only average physical ability, you can still do it. That encouragement is from Dick Gould, and he should know all about victory in tennis. Coach of Stanford University's varsity tennis team (the 1978 NCAA champions), Gould has seen a lot of winners.

"There is a special drive inside people who strive to win, and it forces them to prepare until they reach their goal," Gould says. "If you have that kind of motivation, you can do anything you set your mind to—whether it's to be a tennis star or a business executive."

Although his business is coaching winners, Gould feels that the exercise and enjoyment tennis provides are the best things the game has to offer students.

"It's not necessary that you be a top performer," he says. "You will still feel refreshed, because tennis is such an invigorating game. You can't spend all your time at the library and feel your best. Tennis—or any other physical activity—can get your mind off your studies." To that end, Gould has one final tip to offer the tennis player:

"Enjoy it. When you start getting furious about your playing, it's time to quit. Then the game is controlling you, and it's not a game anymore."

"I began playing tennis seriously when I was 8 years old. And while I may get tired from playing—especially in matches against Connors or Borg—I never tire of the game."

—JOHN McENROE,
20-year-old winner of the 1979 Colgate Grand Prix Masters pro tournament

Take a Course!

If you're fed up with chasing balls you've sent flying over the fence, some basic tennis instruction can help you iron out the kinks in your game.

"Tennis instruction is not only to train those who want to become champions, but also to help the average player enjoy tennis for fitness and fun," says Eve F. Kraft, director of the Education and Research Division of the U.S. Tennis Association.

Such instruction can take many forms. Enrolling in an introductory course at your col-

lege or university may be your best bet. Most colleges have tennis instruction in their curriculums; the classes are usually conducted as group lessons within the physical education department. Group or private lessons at a local club are another possibility. If you want total, crash-course immersion in tennis, you might consider a camp or clinic—though these can be expensive.

For information and lists of tennis camps or instructional programs in your area, write the U.S. Tennis Association, 729 Alexander Rd., Princeton, N.J. 08540.



Harvard Prof Psychs Out Players

As the game of tennis has gained popularity, it's become possible to categorize certain types of players by psychological makeup. So says Dr. Alvin Kahn, a psychiatrist and clinical instructor in psychiatry at Harvard Medical School.

"Some colleagues and I were intrigued by how much a person's emotions and personality entered into his tennis game, so we began researching the idea," says Kahn. The result turned into a book called *Love and*

Hate on the Tennis Court. In one chapter, Kahn and his co-authors described 34 "tennis types." Here are a few of them: **The Bouncer** has a compulsive and obsessive need for the regularity and control he finds in the bouncing ritual, which can work to lessen his anxieties.

The Equipment Freak always has the latest composite racket and the newest in Italian tennis wear. He tries to cover up his flawed self-image with his new outfits.

The Social Climber spends more time in the locker room, pro shop or bar than on the court.

The Clown giggles when he hits the ball out, trying to convince his fellow players that it really doesn't matter to him. But inside, he's crying.

Dr. Alvin Kahn, with Stanley Cath and Nathan Cobb, *LOVE AND HATE ON THE TENNIS COURT*, Charles Scribner's Sons, 1977, \$7.95.

If you're playing tennis to shape up, you might consider trying one of the indoor court sports as well. Handball, paddleball, racquetball and squash are played at a faster pace than tennis and will give you a harder workout in the same amount of time.



WIDE WORLD PHOTO

In the Beginning

Crusaders returning from the Middle East probably brought tennis to Europe in the 12th century; the game resembled handball at that time. French monks played it inside their monasteries until 1245, when an archbishop forbade all clergy to play. French monarchs had taken up the sport in the meantime, and from them it spread to the royalty of other nations.

The monks and kings played tennis by batting the ball with their bare hands. (The French still call tennis *jeu de paume*, game of the hand.) After years of bruises and blisters, a protective glove was developed, and around

EYES

Playing close to the net requires fast reflexes to avoid getting an eyeful of tennis ball, which can result in bruises, cuts from broken glasses, and even retinal detachments.

ELBOW

Tennis elbow is an inflammation near the elbow joint, caused by poor muscle strength and faulty strokes.

FOOT

Blisters can result from friction or improper shoe fit. (Moleskin or Vaseline on "hot spots" can help you avoid them.) Badly worn soles can hinder your traction and cause ankle sprains.

SORE SPOTS & DANGER POINTS



TUNE-UP

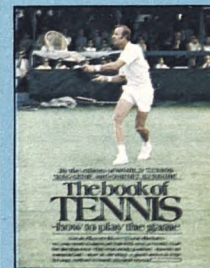
Here's an exercise that utilizes your racket to help limber your back and shoulders before you hit the courts: Standing erect, stretch as high as you can, holding up your racket on your palms. While still holding the racket, slowly lean back and bend at the waist. Feel your muscles stretching as you bend. Straighten up and lower the racket behind your head. Then bend sideways and twist forward from the waist. Do this five times on each side.



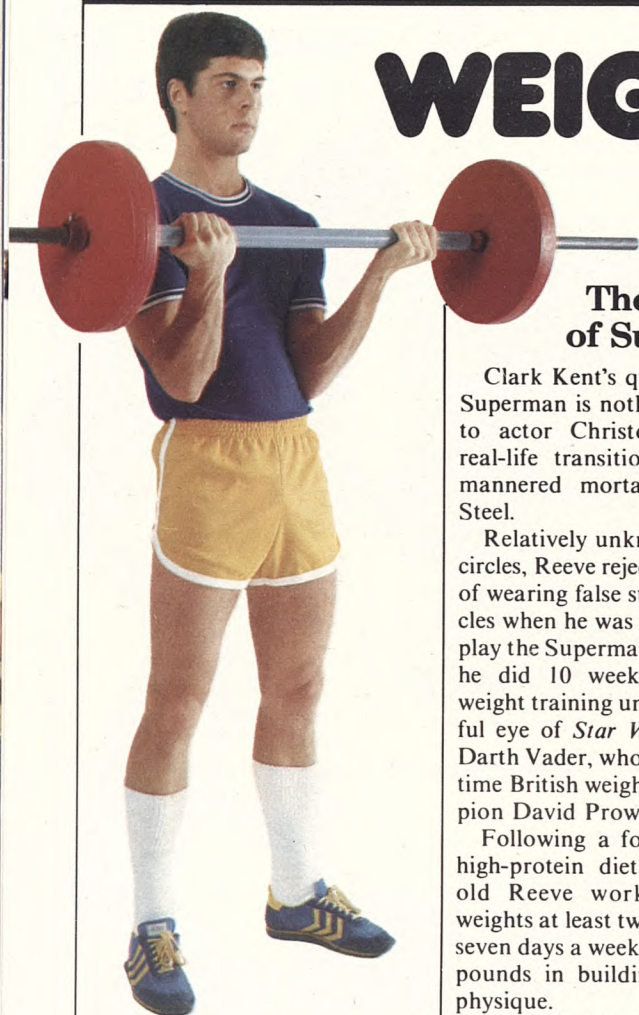
1500 the first tennis rackets replaced the gloves.

Outdoor tennis, first called lawn tennis, did not appear until 1860 in England. Major Walter Wingfield adapted court tennis to the outdoors when he noticed people getting bored with croquet. Wingfield took out a patent on his rules in 1874, and lawn tennis quickly became the height of fashion in England.

Tennis was introduced to the United States by Mary Ewing Outerbridge, who learned it from English army officers while vacationing in Bermuda in 1877. She brought home nets, rackets and balls, and set up the first tennis court in America at Staten Island, New York.



In the *Book of Tennis*, professionals show you in pictures how to play the game. The black-and-white photos and diagrams are accompanied by easy-to-understand explanations and pointers on all aspects of tennis, from serving to practicing with a backboard. *Cornel Lumiere and the WORLD TENNIS magazine editors, BOOK OF TENNIS: HOW TO PLAY THE GAME*, Grosset & Dunlap, 1970, \$2.95.



WEIGHTS

If you train properly with weights, you can tone, shape and strengthen your entire body.

The Making of Superbody

Clark Kent's quick change to Superman is nothing compared to actor Christopher Reeve's real-life transition from mild-mannered mortal to Man of Steel.

Relatively unknown in acting circles, Reeve rejected the option of wearing false styrofoam muscles when he was approached to play the Superman role. Instead, he did 10 weeks of rigorous weight training under the watchful eye of *Star Wars* archfiend Darth Vader, who is really three-time British weight lifting champion David Prowse.

Following a four-meal-a-day high-protein diet, the 26-year-old Reeve worked out with weights at least two hours a day, seven days a week. He gained 30 pounds in building his Superphysique.

"When I signed for the part, I looked like Jimmy Stewart standing sideways," says Reeve. "I had to get to a state where I could believe I was Superman."



SUPERMAN. TM & © DC COMICS INC. 1978

Weight training is a system of resistance exercises that use weights to develop specific muscle groups. Many top athletes combine weight training with regular workouts to increase their stamina and muscle tone.

Your age, sex, body weight and experience affect the type and number of weight training exercises you should do. Heavy lifting with minimal repetitions builds muscle size and strength; lighter lifting with more repetitions tends to build endurance and muscle definition.

Your Own Workout

Weight training exercises emphasize the six basic muscle-group areas: the neck and shoulders, chest, back, stomach, arms, and legs. The proper method for training with weights is to isolate a specific muscle group and then exercise it intensively.

A beginner's workout shouldn't take longer than half an hour. As your body becomes accustomed to the workouts, you can gradually increase the time to an hour. The amount of weight you lift will vary from exercise to exercise and depend on your own physical capabilities. A good rule of thumb is to use a weight you can comfortably handle for 10 repetitions (reps) of an exercise. When you can easily do three sets of 10 reps, add another five pounds and begin again.

Experts advise beginners to start slowly and develop a total body program—moving from station to station on a Universal Gym, for instance, to give all the muscles a workout. There are many weight training books on the market that can help guide you in designing a personal program.

The building of muscle involves first tearing it down with concentrated exercise, then allowing it to rest so that the tissue can grow back a little larger than before. That tearing down of muscles can do damage if practiced too often. It is important, therefore, to lay off the weights and rest at least every other day to allow tissues to rebuild. After a few sessions, you should see results that even a week of sports activity wouldn't provide.

Q: What is the most weight ever raised off the floor by a human being?

A: In 1957, Paul Anderson of Toccoa, Georgia, raised 6,270 pounds in a back lift.

THE ZANE WAY TO A BEAUTIFUL BODY

THROUGH WEIGHT TRAINING FOR MEN AND WOMEN



BY FRANK & CHRISTINE ZANE

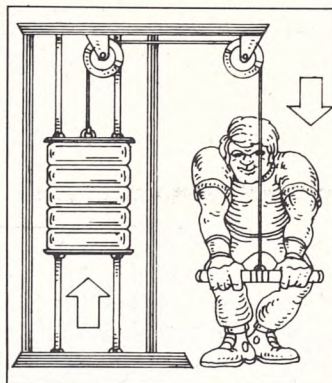
In their book *The Zane Way to a Beautiful Body Through Weight Training for Men and Women*, Frank Zane (a world bodybuilding champion) and his wife Christine present a progressive series of over 120 exercises that can be done with minimal equipment at home. Also included are a nutrition guide and a section on exercises for couples.

Frank and Christine Zane, *THE ZANE WAY TO A BEAUTIFUL BODY THROUGH WEIGHT TRAINING FOR MEN AND WOMEN*, Simon and Schuster, 1979, \$9.95.

The Scoop on Hardware

In order to flex your pecs and limber your lats, you'll need some basic equipment. If you have access to a weightroom equipped with a Universal Gym, you'll find everything you need right there. The rig resembles a steel jungle gym with weights on tracks and pulleys. By pushing or pulling on handles or foot-pedals, you can adjust the weights to meet your own challenge level. For beginners in particular, this system is much safer than working with free weights, which require more control.

If you're sure you want to pursue weight training, and you prefer the privacy of working at home, a barbell set consisting of about 100 pounds of weights, bars and collars costs between \$30 and \$50. (Collars are the removable locks which allow you to add or subtract the weight



plates at the ends of the bar.)

Although it isn't needed for some weight training exercises, the added support of a bench is generally safer than the floor because you're less likely to strain your back muscles or drop a barbell on your chest. Benches range in price from \$20 for a simple flat seat with standing metal slots to \$225 for an outfit with features like leg lifts and an adjustable incline.

"For three days a week, lifting weights becomes part of my life style to keep all my muscles in shape."

—SALLY WORDMAN,
junior at the University of Tennessee

No Ms. Hulk

Contrary to popular misconceptions, weight training will not turn women into incredible hulks. Developing huge Mr. Universe muscles takes years of long daily workouts in addition to the male hormone testosterone, present in only small amounts in women. But weight training *will* develop a woman's endurance and muscle tone, for a body that's not only better-looking but also stronger.

"Everyone should do some weight training, even if they're not training for a sport," advises Jandrena Irwin, the 19-year-old University of Nebraska freshman who is currently the national women's AAU Powerlifting Champion in her 132-pound weight class. "The first thing a lot of women think is that they're going to get big. They won't.

You can stay the same size—or even lose weight—while getting into shape."

As a high school sophomore, Irwin began weight training to improve her performance in track and volleyball. Now she works out two hours a day, six days a week, under the guidance of her father, who is also her coach.

"Sometimes it gets lonely, but after you win and know you're the best, it's all worthwhile," Irwin says. She follows a varied diet but keeps a wary eye out for sugars in order to remain in her weight class.

To win last year's title, Irwin lifted a record total of 690 pounds divided among the squat lift, bench press and dead lift. She hopes to open her own health club someday. But for the present she continues to train, and this spring she'll defend her championship.



GEORGE LONG/SPORTS ILLUSTRATED • 1977 TIME, INC.

When bodybuilders work with weights, they often feel a tingling sensation caused by increased amounts of oxygenated blood swelling muscles and flushing the skin. This high is called "the pump." Pleasurable because it's an exhilarating feeling, the pump is also a visible sign of muscle growth.



JACKIE KAUFMAN

The Sporting Side of Weights

Two competitive sports involving weight training are weight lifting and bodybuilding.

The object of weight lifting is simply to outlift your competition. Male lifters are divided into 11 body-weight divisions ranging from flyweight (114½ lbs.) to super-heavyweight (over 242½ lbs.). Women have nine categories, from flyweight (96½ lbs.) to heavyweight (over 181 lbs.). The barbell is made progressively heavier during the competition, with weight increasing in multiples of five pounds.

Bodybuilding is not so much concerned with shows of strength as it is with beauty of physique. Like a sculptor, the bodybuilder uses weight training techniques to create his or her version of physical perfection. Competitors perform personal posing routines and are judged on muscle development and poise.

Sore Spot

The most common injury in weight training is lower-back strain resulting from poor body position during an exercise. To avoid this, make sure you're doing the exercises correctly. Slow, steady pacing and proper breathing are also important. A 10-minute warm-up routine of rope-skipping, stretching exercises or running is also advisable, to allow your muscles to limber up before you start lifting.

DUMBBELLS:

The original "dumbbells" were bell-shaped pieces of solid lead that didn't ring when they were lifted. Today, these small, hand-held barbells are usually bought in pairs.

BENCH:

While it's not necessary for all the exercises, the added support of a bench could save you strained back muscles.

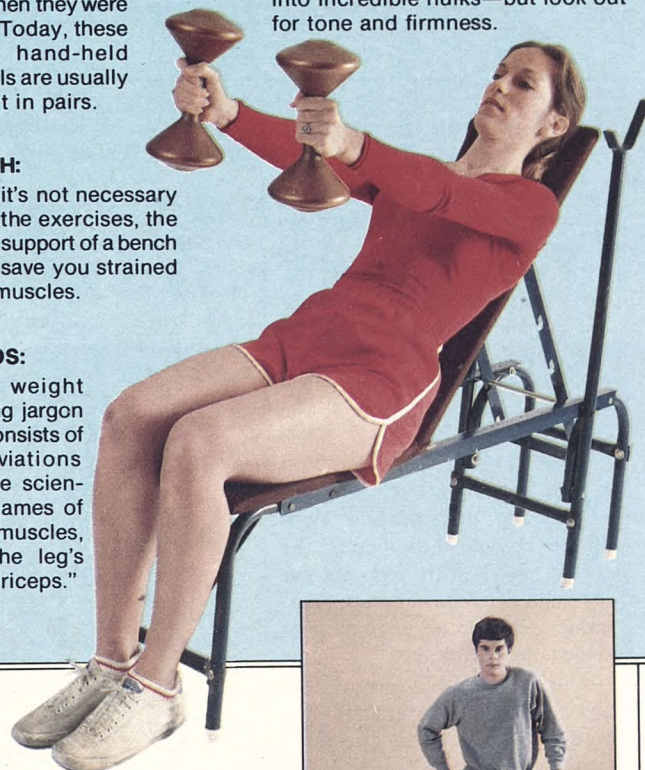
QUADS:

Most weight training jargon just consists of abbreviations for the scientific names of your muscles, like the leg's "quadriceps."

LIFTING LINGO

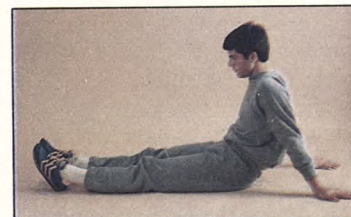
BICEPS:

She can't turn these arm muscles into incredible hulks—but look out for tone and firmness.



TUNE-UP

Limbering up shoulders, back and legs is a must for weight trainers who don't want to strain themselves. These two exercises will help: (Top) Ease slowly into the position shown. Straighten up, then bend the other leg. Repeat five times on each side. (Middle and bottom right) Sit on the floor with your arms extended behind you, palms flat and feet pointed. Next, slide your hips forward as shown and pause for a few seconds to stretch your muscles. Repeat five times.



In the Beginning

In a sense, weight lifting is one of our oldest sports. The whole thing probably started when one caveman challenged another to lift a craggy boulder. It was first used as a method of training, however, in ancient Greece. Milo of Croton, famed as Greece's best wrestler, used to train for matches by running laps around the Olympic stadium with a newborn bull slung over his shoulders. Milo continued this training program every day for four years. As the bull grew, so did his muscles.

In 18th-century London, the circus strong man emerged. Thomas Topham, better known as "The Strong Man," was said to have the strength of 12 men. In a 1741 performance, using a rope and tackle laid over his shoulders, Topham raised three hogsheads of water, a total of 1,836 pounds, several inches from the ground.

Eventually the carnival and vaudeville shows gave rise to standardized amateur competitions. The first world weight lifting championship was held in London in 1891.

BIKING

The simple action of pedaling can strengthen your legs, arms, back and abdomen.

In the Beginning

Pedal-powered bicycles have existed for only about 140 years, even though Leonardo da Vinci designed one on paper in the 15th century. In the late 1790s, the Comte de Sivrac of France put a crude wooden horse on two wheels and fastened a saddle on the top. But his construction had no drive mechanism, so the rider had to push it like a child's scooter. It wasn't until 1840 that a Scotsman named Kirkpatrick Macmillan developed a two-wheeled vehicle that could be ridden with both feet off the ground. His pedal-operated machine marked the beginning of self-propelled bicycles.

During the next several decades, various improvements were made in Macmillan's machine. Around 1870 an Englishman named James Starley designed and manufactured a bicycle with an enlarged front wheel and a smaller back wheel. His bike, called the "ordinary," was the first design to allow the rider to thrust his legs downward effectively while pedaling.

The Starley ordinary is generally considered to have been the first truly practical bike. Some ordinaries were brought to the U.S. during the 1876 Centennial Exposition in Philadelphia. When the exposition ended, the bicycles were purchased by the Cunningham Company, which went on to manufacture them under the "Columbia" trade name. Although the Columbia ordinary weighed over 70 pounds and cost \$313, bicycle fever quickly spread throughout the United States.



BETTMANN ARCHIVE

Bicycling is a great way to see the countryside and condition your body at the same time. Nearly all the large muscle groups of the body are exercised when you ride; your breathing is deepened, your circulation stimulated and your endurance increased. Cycling can help you lose weight as well. At average speed, a woman on a bike burns around 300 calories per hour, a man 450.

Your Own Workout

If you are a beginning rider, you will be using your muscles in a new way and from a different position. To avoid soreness, you should start out with short rides (perhaps half a mile), gradually increasing the distance as your muscles and cardiovascular system get conditioned. Use low gears to start with (pedaling is easier), and work up to higher ones as you get in shape.

One exercise that will help can be done on your dorm room or living room floor. Lie down on your back and stretch your arms over your head. Holding a 15-pound weight in each hand, lift your arms over your head and down to your stomach; then return them to the floor above your head. This exercise will strengthen your chest and diaphragm. Another good exercise is running up and down stairs or bleacher seats to develop your legs.

When you've worked up to distance riding, don't forget to "warm down" at the end of your ride. Take the last couple of miles slowly in order to relax your muscles and prevent cramping.

Going Nowhere Fast

What if you don't like biking in a rainstorm?

Bad weather can't stop you from cycling if you have an exercise bicycle. These stationary models allow you to pedal indoors while watching television or daydreaming, since you have no gears to shift or traffic to watch for. You burn approximately the same number of calories on an exercise bike as you would on a real bicycle, but fewer muscles are worked since there is no strenuous hill-climbing involved.

There are dozens of exercisers on the market, ranging from a \$500 model with an electric motor to a couple of metal tubes (\$50) that attach to a real bike and transform it into an exerciser.



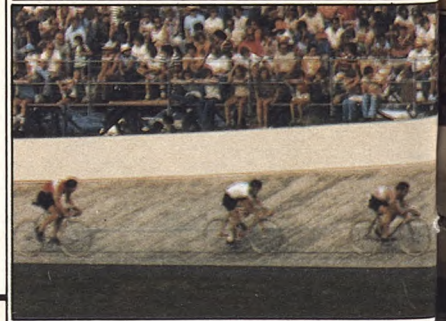
LOOK OUT FOR BIKE RACERS!

The frequency of bicycle races and the number of bike clubs are increasing, but bike racing as a sport has not even begun to peak, according to Otto Wenz, president of the U.S. Cycling Federation.

"Cycling is really starting to pop, and I expect it will be as popular as running in five or six years," Wenz says.

On the college level, bike racing is mainly an intramural sport, although several colleges in the East (such as Yale and West Point) have given cycling varsity status. Other schools have cycling clubs which participate in local races. Cyclists of all

COURTESY OF BICYCLING MAGAZINE



"Biking clubs are not just for the experts. When I joined the cycling club at the University of Florida, I was only a recreational rider."

—DAVID ISRAEL, college sophomore who recently biked 4,500 miles from Gainesville, Florida, to Seattle, Washington





John Marino, Cross-Country Champ

"Of all sports, bicycling is the most functional. You can get a workout while doing something useful like going to the grocery store or going to work," says cross-country bicycling champion John Marino.

Short trips such as these were the extent of Marino's cycling until three years ago, when he decided on impulse to go after the transcontinental bicycling record. After two and a half years of training to build his endurance, he finally departed from Santa Monica on August 13, 1978. He arrived in New York City 13 days, one hour and 20 minutes later, breaking the old record by better than five days.

Marino was accompanied on the trek by a motor home carrying four people, among them a masseuse, a mechanic and a public relations man who arranged police escorts through towns along the way to avoid traffic tie-ups. Marino slept only three hours per night and rode the last 400 miles—28 hours' worth of cycling—without a break. This August he plans to make the ride a second time in an attempt to beat his own record.

"I know I can break last year's record," Marino says. "I've learned from my mistakes and I've improved my endurance. More important, the mental pressure is off because I know I can make it."

Bike Hikes

Hiking across the city or the countryside on your bicycle can challenge your endurance and give you a chance to see the scenery as you never could before.

For information on nationwide bicycle tours, check out *The North American Bike Atlas*. This book lists 175 cycling routes from coast to coast, as well as in nine Canadian provinces, Mexico, Central and South America, and Europe. (Send \$3.50 to: American Youth Hostels, Delaplane, Va. 22025.)

Another national organization that provides free information to interested bikers is Bikecentennial, Box 8308, Missoula, Mont. 59807, (406) 721-1776.



A section on do-it-yourself repairs and a bicycle buying guide are two features of *Richard's Bicycle Book*, by Richard Ballantine. Illustrations provide step-by-step instruction on maintenance and repairs. The book also lists names and addresses of mail-order parts shops and touring and racing clubs. It is revised annually, so information on prices, trails and cycling innovations is kept up to date. *Richard Ballantine, RICHARD'S BICYCLE BOOK*, Ballantine Books, 1978, \$4.95.

The Safest Routes

Bikeways—regulated safety routes for bicycle riders—are a growing national phenomenon. During the past 17 years, more than 250,000 miles of bikeways have been established in the U.S. They usually take the form of a series of city streets or country roads marked to guide the cyclist and to alert motorists.

The first bikeway, a 25-mile route, opened in Homestead, Florida in 1962. Two years later, a 300-mile bikeway in Wisconsin was opened.

Abandoned railroad tracks in scenic countryside are also being converted into bike paths. Local or state governments buy up trackage, rip out rails and smooth the surface with asphalt.

TUNE-UP

Leg strength is the most important element in biking. A good way to get your legs in shape is to jump rope. A daily stint will increase strength from your ankles to your thighs.

To start, try jumping for just a few minutes the first couple of days, increasing the time as you feel stronger. Always jump from the balls of your feet. You may feel awkward at first, but a little perseverance will have you skipping along like Muhammad Ali.



A Better Breed of Bike?

A mechanical engineering professor has redesigned and built a 1930s "recumbent" that could soon be mass-produced as a better breed of bicycle. The recumbent is a variation on the conventional bike in which the cyclist is seated behind the pedals and supported by a backrest.

According to its designer, Dr. David Wilson of the Massachusetts Institute of Technology, the recumbent is safer than a 10-

speed because the rider is less likely to be thrown forward from a reclining position. In addition, all muscle pressure is directed onto the pedals, which allows the cyclist to attain speeds of up to 30 m.p.h.

The recumbent was produced experimentally by the British and French in the '30s, but failed to catch on. Wilson's new-and-improved model will be built and sold by special order. Prices will range from \$800 to \$1,500. If the recumbent sells well, mass production will soon follow.



Cycling on city streets or other much-traveled roads requires certain safety precautions. To improve your visibility to motorists, you should wear light clothing. Equipping your bicycle with a tall bike flag will make you stand out even more. In addition to reflectors on your spokes and seat, a headlight is essential for riding at night or on dark days. Finally, be sure to use hand signals when turning corners or stopping so that motorists will know your intentions.

levels can race in local events, since competitors are usually matched according to age, sex and ability. To join a bicycle club, check with your local bike shop or write the U.S. Cycling Federation, Box 669, Wall Street Station, New York, N.Y. 10005.

Track events for bicycles are held in a facility called a "velodrome," a banked oval track which resembles an auto speedway. Like a speedway's, a velodrome's turns are steeply banked and its straightaways are level. Although Europe abounds with both indoor and outdoor velodromes, there are only 13 in the U.S. (all of them outdoor concrete tracks). Among the American cities that have velodromes are New York, St. Louis, Milwaukee and Atlanta.

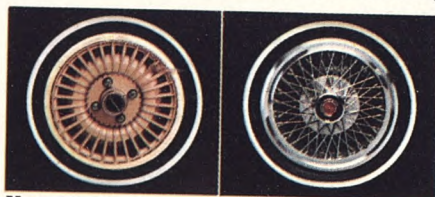


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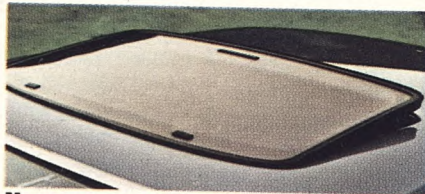


Now is a sporty way of life. Futura matches it with a sporty rack and pinion steering and an economical 2.3 litre overhead cam engine with 4-speed manual transmission.*



Now means personal style. Add your own touch. Order your own personal Futura to your own personal taste.

*EPA estimated MPG: 20. Highway estimate 31 MPG. For comparison to other cars. Your mileage may differ, depending on speed, weather and trip length. California MPG is lower. Actual highway mileage will probably be lower than estimate.



Now is a flip-up open air roof... open up your roof and let the sunshine in.



Now means you've got your own style... and we've got the car to match.



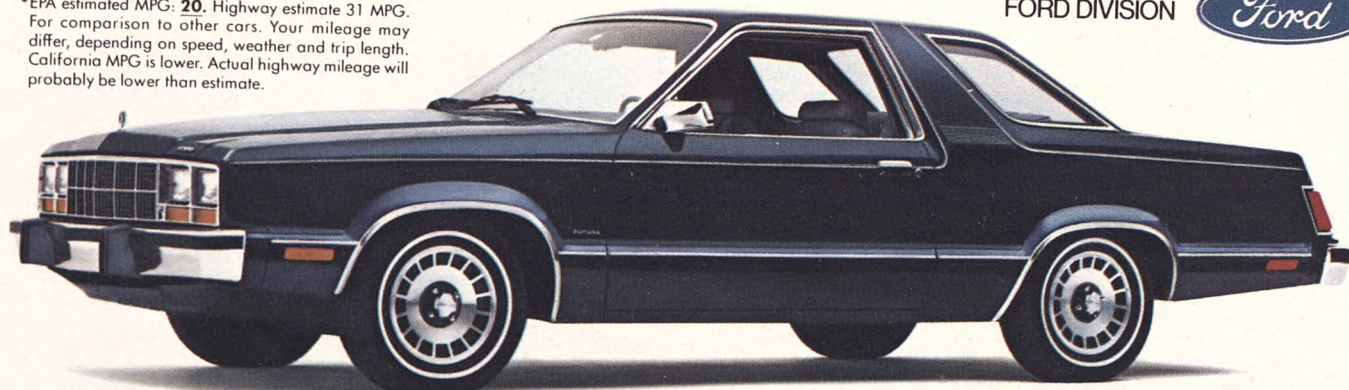
Now means luxury touches and high style, coming and going. Why not the optional touch of power windows?



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FORD DIVISION



The future isn't someday, it's now. Why wait? Step into the '79 Futura—now!

SWIMMING

A good workout in the water makes use of almost every muscle in your body.



Your Own Workout

Boston University swim coach Raegh Wetmore suggests this five-step plan to get you into shape:

Step 1: Swim one lap, then rest for 10 seconds. Repeat 10 times. (A lap is the distance from one end of the pool to the other. Standard length is 25 yards.)

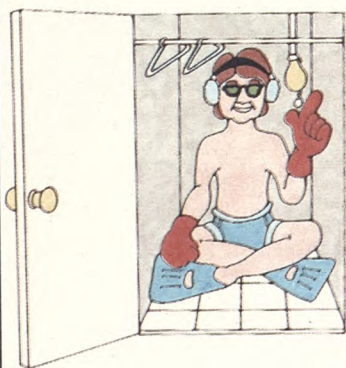
Step 2: When you can make eight laps without tiring, double the distance to 16 (400 yards). Rest 10 seconds after every two laps.

Step 3: Swim eight laps consecutively, then rest for 10 seconds. Repeat.

Step 4: Swim 16 laps consecutively, then rest for 30 seconds. Repeat. (To minimize the risk of developing tendinitis in your shoulders, Wetmore recommends staying at step four for two weeks.)

Step 5: You should now be able to swim 32 laps (one-half mile) without stopping. Do this three times a week to keep your lungs, heart and muscle system in tip-top shape.

The world's largest swimming pool? The saltwater Orthlieb Pool in Casablanca, Morocco measures 480 by 75 meters. That's almost nine acres of water.



The boredom of swimming mile after mile during practice is the biggest obstacle a competitive swimmer has to overcome, according to University of Tennessee swim coach Ray Bussard.

"Picture it this way," says Bussard. "Go home and put on a bathing suit. Cover your ears with earmuffs, put on gloves and dark glasses. Go into a closet with a five-watt light bulb and sit there—three and a half hours a day, six days a week."

CRAMPS

You're more likely to develop a leg cramp—rather than stomach cramps—when you swim after a meal. Why? Because a large amount of blood goes to your stomach to aid in digestion, leaving your extremities short on circulation and prone to cramps.

To work out a leg cramp: Float on your back and bring the leg close to the surface. Massage the leg to relax the tissue and help the blood circulate. Knead the muscle with both hands several times, alternately rubbing up and down and pinching the flesh. Then slowly exercise the leg.

Improving Your Stroke

The distance from one end of the pool to the other can seem infinite, especially to the swimmer just beginning a lap program. These tips on improving your crawl stroke will make the going easier.

Body moves: Keep your body parallel to the surface and in a streamlined position. Don't submerge your head completely—the water should come to just below your hairline. Roll your body only slightly when you stroke; too much movement in either direction will slow you down.

Arm forces: Don't overexert your arms by digging straight down toward the bottom of the pool. You'll get just as far, and with less effort, if your arms just skim the water. Angle each arm into the water, with the elbow slightly bent. Reach forward, fingers together, and pull the water toward your chest. Push the water back so that you've made an S with your arm.

Getting a kick out of it: The kick comes from the hips and thighs, not the knees. Kick upward with straight legs, using your feet almost like flippers. Try counting six kicks for every arm cycle.

Catching your breath: Don't lift your head out of the water to breathe. Instead, rotate your head from the neck, to one side only. Inhale when your head is turned to the furthest point, exhale when your face is back in the water.

In the Beginning

The first swim meet on record took place in Japan in 1603. But the British are credited with starting the growth of swimming as a popular sport. In fact, the word "swimming" derives from the Old English "swimman." After Captain Matthew Webb became the first man to swim the

English Channel in 1875, pools were built all over London and the first swimming associations were formed.

Competitive swimming emerged in the U.S. when the first AAU meet was held in 1893. Three years later, freestyle swimming events were part of the first modern Olympic games.

TUNE-UP

Looking good in your swimsuit starts with a flat stomach. This exercise will do the trick:

Lie down on your back, arms stretched over your head, fingers and toes pointed. All in one motion, lift your legs and upper body off the floor and touch your toes. (Your buttocks should be the only part of you still on the floor.) Hold and count to five.

Stiff shoulders can cause tendinitis when you swim. Here's a simple exercise that will stretch your shoulder muscles:

Grip a towel in both hands behind your back. Lift your arms as far overhead as you can. Reverse the movement with the towel overhead, reaching backward and downward, until your shoulders feel loose.



"Not only will swimming work almost every muscle in your body, but your cardiovascular system will also benefit tremendously."

—BILLY FORRESTER,
Olympic medalist and
Auburn University
student

OUT FRONT IN VANS. FORD!

More Ford vans are on the road today than any other make. There are good reasons why!

(based on cumulative registrations as of 7/1/77)

Advanced van design. Ford's engine is set forward—for easy entry and easy move-around room. Ford vans are built tough, with rugged body-on-frame construction.

Personalize your Ford, or buy one already customized.

If you're really into vanning, you're into FORD!



Owner-painted rocker panel.



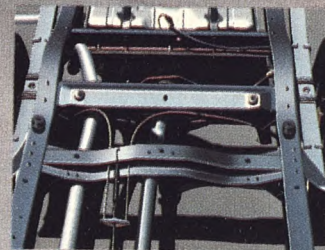
Ford's van variety

Everything from a "Cruising" van already customized to a "Free Wheeling" van (shown with optional portholes, pushbar, fog lamps, wheels and tires).



Ford's roomy design

Lots of livin' room! Even tilt steering wheel, swivel/reclining chair options.



Tough frame

Separate body-on-frame, cushioned by rubber mounts.

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BODY/MIND

Could it be possible that the path to your soul is the one you're running on?

THE INNER EXPERIENCE. Right after an intense and exhausting football game, ex-Cincinnati Bengal Mike Reid used to spend hours at the piano producing what he felt was his best music. Golf pro Arnold Palmer believes that when his mind is calm, he can focus his attention so completely that his body performs with its own "internal sense of rightness."

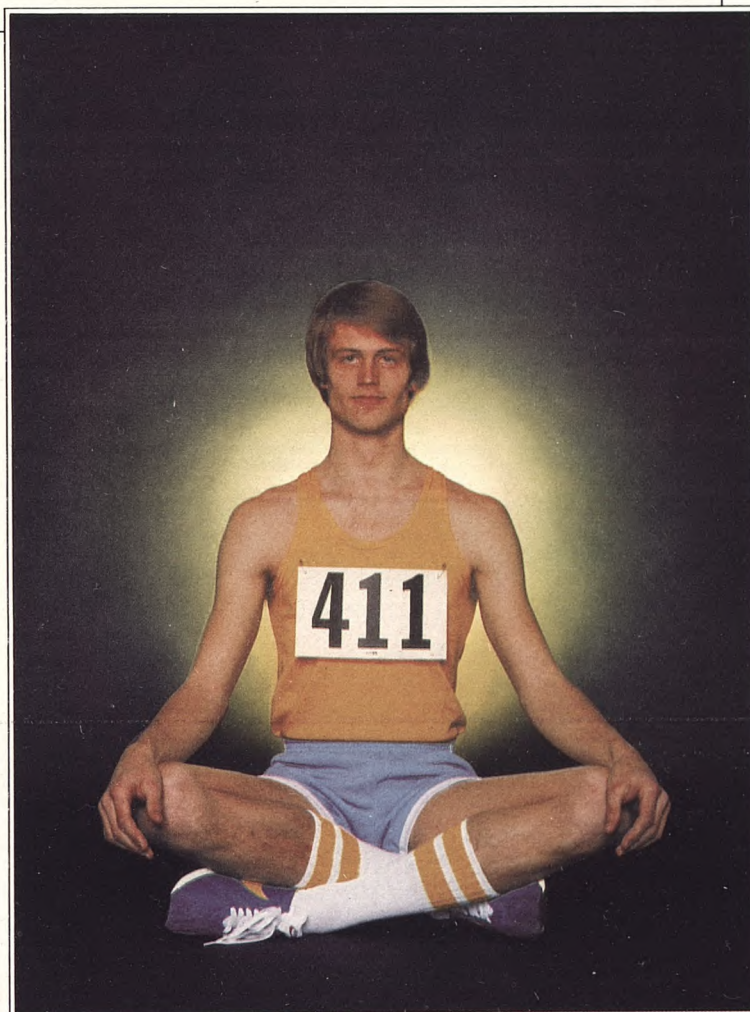
The experiences of Mike Reid and Arnold Palmer are just two examples of a growing recognition among athletes and amateurs alike that the body and the mind do not function independently of one another. "Every change in the physiological state is accompanied by a change in the mental state—and vice versa," says Edward Greenwood, M.D., a consultant to the Meninger Foundation. To put it simply: Your mind affects the performance of your body, and your body has an effect on your mind.

EAST MEETS WEST. This holistic approach to fitness, which acknowledges that there is a dynamic relationship between body and mind, is not new. The ancient Greek, Oriental and Indian cultures knew the concept of mind-body harmony thousands of years ago. Today, everyone from the professional football player to the weekend runner is beginning to approach fitness from a less strictly physical point of view.

Tennis is a case in point. One of the best-known American proponents of the "inner" approach to sports is Tim Gallwey, author of *The Inner Game of Tennis*, Random House, 1974, \$6.95. According to Gallwey, what hinders a tennis player's performance is not faulty equipment, bad conditions or lack of expertise, but the doubt, fear and lack of self-confidence he creates in his mind. The object of the inner approach is to calm the mind and let the instincts take over.

That sudden hot streak you hit in the middle of a game, and that freedom-from-self feeling that can come with strenuous running, swimming or skiing, are examples of the state Gallwey thinks you should try for—a state in which the trained movement becomes natural and effortless because the body has taken over and the mind is out of the way.

THE CHEMICAL CHANGE. Not only can your mind and emotions affect your physical performance, but it also appears that exercise may enhance your mental awareness and attitude. Physicians and psychologists are currently studying physiological evidence which indicates that vigorous aerobic exercises such as running, swimming and racquetball, done regularly for sustained periods, may stimulate the production of certain body chemicals that can have the same effect as antidepressant drugs. It is already known that aerobic exercise increases the flow of oxygen to the brain and helps eliminate toxins from the body.



Other physicians believe the psychological benefits of exercise come not so much from the act itself as from the release and relaxation it affords. "I jog to keep in shape," says Marc Ross, a Kent State graduate student, "but I really look forward to my daily run because I can escape the pressures of the day. Somehow by the second mile I feel calmer, the stress subsides and I return to my studies with a clearer head."

A NEW ATTITUDE. Finally, it usually happens that being physically fit not only helps clear your mind and reduce tensions, but also brings a sense of control over your body and mind that can lead to a better feeling about yourself in general. In the words of body-builder Arnold Schwarzenegger:

"I think you gain a lot of self-confidence by having so much command over yourself, over your body, and that is a reflection of your mind. It carries a kind of confidence into a lot of other areas of your life."

To learn more about your incredible body, look at a copy of *MAN'S BODY: AN OWNER'S MANUAL*, by the Diagram Group, Bantam Books, New York, 1976, \$2.75, or *WOMAN'S BODY: AN OWNER'S MANUAL*, by the Diagram Group, Bantam Books, New York, 1977, \$2.75.

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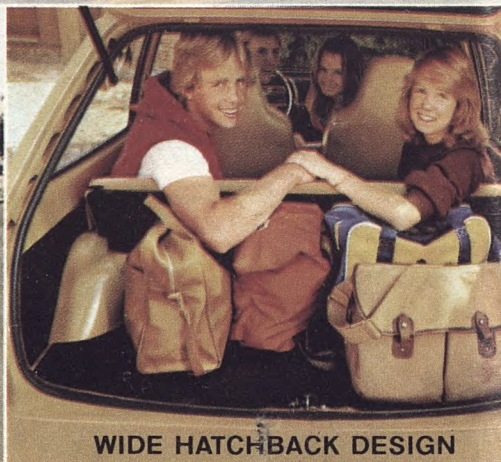
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